EAGLE TUGS

Parts and Service Manual

Vehicle Types: TT-4, TT-5, TT-6, & TT-8

Engine Type: Wiscon Gas TME27 Engine Model

INTRODUCTION

From everyone at Eagle Industrial Truck Manufacturing, we would like to say Thank You for purchasing an Eagle TT-series tow tractor. We take a lot of pride in the quality of the products that we build, as well as our continued customer service. Our goal is to build a long term relationship with our customers. We want you, the customer, to be 100% satisfied with your Eagle experience. To us, this means that your Eagle TT-series tractor is functionally superior to any other products you have used. This also means that your Eagle product is continually supported in a professional, timely manner.

PURPOSE & USE OF THIS MANUAL

This manual is designed as a reference guide to make the reader more familiar with the components of the Eagle TT-4, TT-5, TT-6, and TT-8 tow tractor models. This manual includes part numbers and descriptions to assist the reader in ordering component spare/service parts. The manual also outlines the Scheduled Maintenance Intervals recommended by Eagle in order to keep your vehicle running properly. In this manual you will also find the Eagle Standard Warranty on all of the TT-series tow tractors. However, for more detailed information on the Eagle Warranty and procedure, as well as information pertaining to the safe operation of your Eagle product, please see the Eagle Operations Manual that was also included with your vehicle.

TECHNICAL ASSISTANCE

When addressing a repair procedure or operational problem, please remember that Eagle technical support is only a phone call away. Eagle technicians are available to assist you in vehicle diagnostics and recommended repair procedures. We encourage you to use this service to reduce machine down-time and to gain a better understanding of proper repair procedures.

ORDERING SPARE/SERVICE PARTS

Eagle inventories most of the component parts found in its TT-series tow tractors, and most spare/service parts can be shipped the same day the order is received. Parts orders need to be received at Eagle by 12:00 pm (Noon) EST in order for the parts to be shipped that same day. Parts ordered after 12:00 pm EST will most likely be shipped the following day.

CONTACT INFORMATION

Eagle Corporate Office
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Taylor, MI 48180
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TABLE OF CONTENTS

INTRODUCTION **2**

PURPOSE & USE OF THIS MANUAL 2
TECHNICAL ASSISTANCE 2
ORDERING SPARE/SERVICE PARTS 2
CONTACT INFORMATION 2

WARRANTY **6**

VEHICLE ID INFORMATION 6
WARRANTY REGISTRATION 7
STANDARD WARRANTY 7

Scheduled Maintenance 8
TT-4, 5, 6, & 8 DIESEL MAINTENANCE INTERVALS 8
LUBRICATION CHART - TT SERIES-ALL WHEEL DRIVE 9
LUBRICATION CHART - TT SERIES-REAR WHEEL DRIVE 10

SERVICE PARTS ILLUSTRATIONS & DETAIL **11**

IDENTIFICATION KEY 11
POWER TRAIN 12
Belt-Drive Accessory 12
Notes 13
Engine Dress 14
Engine Dress—Detail 15
Prince Pump 16
Prince Pump—Detail 17
CONTINENTAL TME27 ENGINE PARTS CATALOG 18
Service Facilities 19
Introduction 20
Engine Service Kits 21
Crankcase, Bearing Caps & Oil Filter 22
Crankcase, Bearing Caps & Oil Filter—Detail 23
Cylinder Head, Cover & Valves 24
Cylinder Head, Cover & Valves—Detail 25
Camshaft & Rocker Arm 26
Camshaft & Rocker Arm—Detail 27
Crankshaft & Pulley 28
Crankshaft & Pulley —Detail 29
Piston & Connecting Rods 30
Piston & Connecting Rods —Detail 31
Oil Pump 32
Oil Pump —Detail 33
Gear Cover 34
Gear Cover —Detail 35
Starter 36
Starter—Detail 37
Intake & Exhaust Manifold 38
Intake & Exhaust Manifold—Detail 39
Intake Manifold, EFI & Heat Shield Side Inlet-Gasoline 40
Intake Manifold, EFI & Heat Shield Side Inlet-Gasoline—Detail 41
Intake Manifold, EFI & Heat Shield Side Inlet-Dual Fuel 42
Intake Manifold, EFI & Heat Shield Side Inlet-Dual Fuel—Detail 43
Intake Manifold, EFI & Heat Shield Side Inlet-LPG Only 44
Intake Manifold, EFI & Heat Shield Side Inlet-LPG Only—Detail 45
Intake Manifold, EFI & Heat Shield Rear Inlet-Gasoline 46
Intake Manifold, EFI & Heat Shield Rear Inlet-Gasoline—Detail 47
Intake Manifold, EFI & Heat Shield Rear Inlet-Dual Fuel 48
Intake Manifold, EFI & Heat Shield Rear Inlet-Dual Fuel—Detail 49
Intake Manifold, EFI & Heat Shield Rear Inlet-LPG Only 50
Intake Manifold, EFI & Heat Shield Rear Inlet-LPG Only—Detail 51

Ignition Coils & PCV System ... 52
Ignition Coils & PCV System—Detail ... 53
Water Pump Assembly ... 54
Water Pump Assembly 12 5/8″ Hi—Detail ... 55
Water Header & Thermostat ... 56
Water Header & Thermostat—Detail ... 57
Alternator with 12 5/8″ Hi Water Pump ... 58
Alternator with 12 5/8″ Hi Water Pump—Detail ... 59
ECM & Harness ... 60
ECM & Wiring Harness ... 61
Balancer Crankshaft & Pulley ... 62
Balancer Crankshaft & Pulley—Detail ... 63
Balancer Assembly TM27B06290 ... 64
Balancer Assembly TM27B06290—Detail ... 65
Push Fan ... 66
Push Fan—Detail ... 67
Puller Fan ... 68
Puller Fan—Detail ... 69
Water Pump Assembly 10″ Hi ... 70
Water Pump Assembly 10″ Hi—Detail ... 71
Oil Cooler ... 72
Oil Cooler—Detail ... 73
Oil Cooler with LPG Systems ... 74
Oil Cooler with LPG Systems—Detail ... 75
Block Heater ... 76
Block Heater—Detail ... 77
Engine Gasket Sets ... 78
Service & Ordering Parts ... 79
DRIVELINE ... 80
Drive Shaft Assembly—Front ... 80
Drive Shaft Assembly—Rear ... 81
TRANSMISSION ... 82
Cooling System-Transmission ... 82
Notes ... 83
Transaxle Mounting & Misc. Parts ... 84
Transaxle Mounting & Misc. Parts—Detail ... 85
Transaxle Case Extension & Retainer ... 86
Transaxle Case Extension & Retainer—Detail ... 87
AXLES ... 88
Axle Assembly—Front Non-Drive (2WD) ... 88
Axle Assembly—Front Drive (4WD) ... 89
Axle Assembly—Rear ... 90
Notes ... 91
Axle Assembly Breakdown—Front Non-Drive (2WD) ... 92
Axle Assembly Breakdown—Front Non-Drive—Detail ... 93
Axle Assembly Breakdown—Front Drive (4WD) ... 94
Axle Assembly Breakdown—Front Drive—Detail ... 95
Axle Assembly Breakdown—Front Drive—Detail Continued ... 96
Notes ... 97
Axle Assembly Breakdown—Rear Drive ... 98
Axle Assembly Breakdown—Rear Drive—Detail ... 99
BRAKES ... 100
Brake Caliper Assembly—Rear ... 100
Brake Caliper Assembly—Rear—Detail ... 101
Brake System Hydraulic & Detail (Steering) ... 102
Notes ... 103
Brake System—Hydraulic ... 104

Brake System—Hydraulic—Detail 105
Brake Actuator Assembly 106
Brake Actuator Assembly—Detail 107
Parking Brake Actuator Assembly 108
Parking Brake Actuator Assembly—Detail 109
WHEELS, TIRES & COOLING SYSTEM (ENGINE) 110
Wheel & Tire Assembly & Detail 110
Cooling System (Gas) & Detail 111
FUEL SYSTEM 112
Fuel System (Gas) & Detail 112
Notes 113
Fuel System Continued 114
STEERING SYSTEM 116
Steering System Breakdown 116
Steering System Breakdown—Detail 117
Accelerator Pedal Assembly & Detail 118
Notes 119
OPERATOR COMPARTMENT, ELECTRICAL & OTHER ASSEMBLIES 120
Instrument Panel 120
Instrument Panel—Detail 121
Transmission Control & Detail 122
Air Cleaner Sub-Assembly & Detail 123
Air Cleaner Assembly 124
Air Cleaner Assembly—Detail 125
Exhaust System & Detail 126
Exhaust System Continued 127
Electrical Component Board & Detail 128
Headlight & Taillight Assembly & Detail 129
Wiring Harness 130
Body Assembly 131
Body Assembly—Detail 132

WARRANTY

***WARNING – DO NOT** USE JET A FUEL IN THIS ENGINE. ANY US OF JET A FUEL WILL VOID THE WARRANTY ON THE ENGINE AND WILL RESULT IN VIOLATION OF EPA EMISSIONS REGULATIONS

VEHICLE ID INFORMATION

This information can be found on the tractor's I.D. Plate located on the firewall next to the driver's seat. Additionally, there is a permanent serial number located on the rear bulkhead inside the engine compartment.

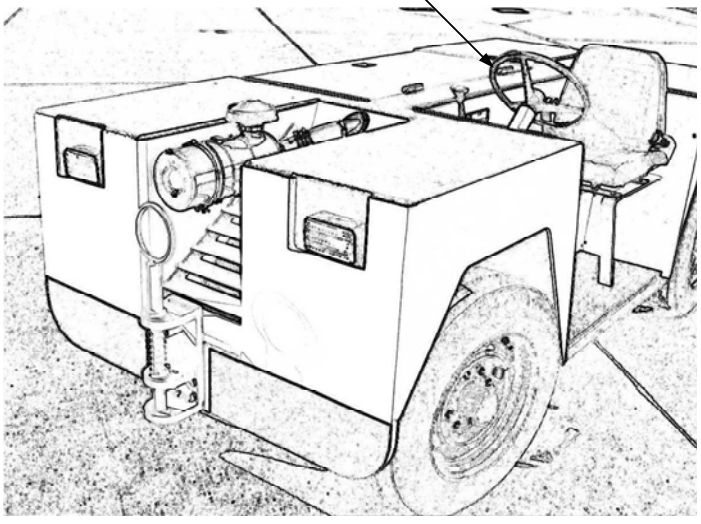
MODEL _____

SERIAL # _____

MFG DATE _____

ENGINE TYPE _____

ENGINE SERIAL # _____



WARRANTY

WARRANTY REGISTRATION

Please fill out the engine warranty registration card that comes with your vehicle. This information is needed for completing warranty work on your engine if a problem occurs. *See Vehicle ID Information on previous page.*

Threeagle℠ Warranty Information*

The Threeagle℠ Warranty covers only Eagle TT-series aircraft tractors manufactured after October 1, 2006. Eagle Tugs (EAGLE) warrants that the Eagle TT-series tow tractors will be free from defects in material and workmanship for a period of 3 years or 3,000 operating hours, (except for the electrical and cooling systems which are 3 months or 500 hours), from date of delivery to the first customer (or first use), whichever comes first. Written notice of any claimed defect must be given to EAGLE within the warranty period and within thirty (30) days after such defect is discovered. Liability under this warranty is limited to either replacing or repairing, at EAGLE's election, any part or parts deemed defective after examination by EAGLE or an Authorized Service Representative. Any EAGLE machine or any of its parts returned by customer to EAGLE or an Authorized Service Representative via prepaid transportation, and which is found to be defective, will be repaired or replaced and returned to customer prepaid. On the other hand, should a part be found not defective, inspection and handling charges may be charged to the customer or Authorized Service Representative by EAGLE.

This warranty does not extend to the tires and batteries as these are warranted directly to the user by their respective manufacturer and not by EAGLE or the Authorized Service Representative.

This warranty does not apply to any EAGLE tow tractor, or component part(s) that have been subjected to misuse, accident or improper handling, maintenance or application; nor does it extend to the EAGLE machine and/or parts which have been repaired or altered outside of EAGLE's plant or the facility of an Authorized Service Representative.

This warranty does not apply to routine maintenance, ignition components, or wearable parts of the EAGLE machine such as filters, seals, plugs, hoses, belts, brake pads, light bulbs, fuses or similar items. Moreover, this warranty does not extend beyond its original term for any EAGLE machine or part replaced or repaired under warranty.

EXCEPT AS SET FORTH ABOVE, ALL WARRANTIES, CONDITIONS, REPRESENTATIONS, INDEMNITIES AND GUARANTEES, EXPRESS OR IMPLIED, WHETHER ARISING BY STATUTE, CUSTOM OF TRADE OR UNDER ORAL OR WRITTEN STATEMENTS MADE BY OR ON BEHALF OF EAGLE NEGOTIATIONS WITH CUSTOMER, DISTRIBUTOR, DEALER OR ANY REPRESENTATIVE, ARE HEREBY OVERWRITTEN AND EXCLUDED, AND NO LIABILITY SHALL ATTACH TO EAGLE, EITHER IN CONTRACT OR IN TORT, OR STRICT LIABILITY IN TORT, FOR ANY DAMAGE TO PROPERTY, LOSS OF PROFITS, DAMAGES, COSTS, CHARGES, LIABILITY OR EXPENSES, WHETHER DIRECT OR INDIRECT, CONSEQUENTIAL OR OTHERWISE, WHICH ARISE OUT OF OR IN CONNECTION WITH THE SALE OR USE OF ANY EAGLE MACHINE OR THE SUPPLY OF SERVICES.

SUBJECT TO CHANGE WITHOUT NOTICE

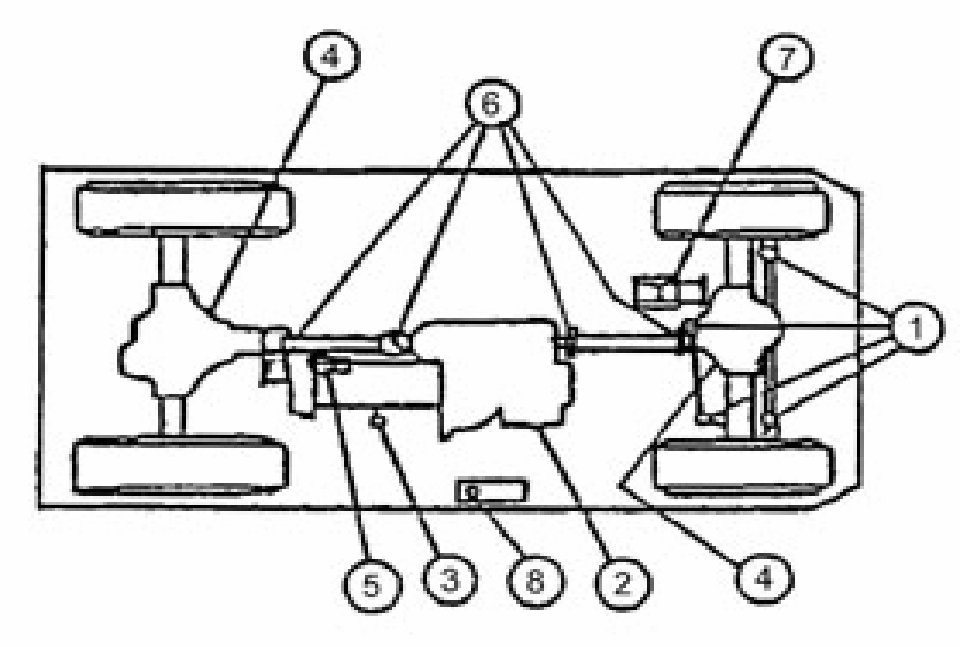
*Note - The Threeagle℠ Warranty covers only TT-series tow tractors manufactured after October 1, 2006. All TT-series manufactured prior to the date above, and all other Eagle Tugs models, are covered under our Standard Warranty of 1 Year or 2,000 hours. Eagle Bob Tails are covered under Ford Motor Company's Standard Warranty for each respective Ford truck model.

INTRODUCTION

TT 4, 5, 6, & 8 GAS MAINTENANCE INTERVALS

Interval	Check/Inspect	Service	Replace	
			Part #	Description
Daily	-Engine Oil -Power Steering Fluid -Transmission Fluid -Brake Fluid (Master Cylinder)	-Refill fluid levels as required	N/A	N/A
Every 50 Hours	<u>All of the above, plus:</u> -Valve Cover Gaskets -Engine Rubber Mountings -Inlet & Exhaust Pipe to Manifold -Throttle Controls -Coolant Levels -All Hoses for deterioration and/or chafing -All Belt Drives for wear and proper tension -Steering arms bolts -Fuel System for leaks -Electrical System for frayed wires and/or loose connections	-Components that show wear or appear damaged -Clean engine air cleaner Re-torque to 120 Ft lbs.	N/A	N/A
Every 100 Hours	<u>All of the above, plus:</u> -Battery Cables for Corrosion -Steering arms bolts	-Components that show wear or appear damaged Re-torque to 120 Ft lbs. -Change oil and replace oil filter	TM27L00213	Oil Filter
Every 500 Hours	<u>All of the above, plus:</u> -Drum Brake Linings, Lines & Hoses -Steering arms bolts	-Components that show wear or appear damaged -Replace Air Cleaner Element -Replace Fuel Filter Re-torque to 120 Ft lbs. -Replace Transmission Fluid & Filter -Rotate Tires	P549271 TM27F00339 F8JL9A011AA 	Air Cleaner Element 3" Pressure Filter Low Pressure Filter
Every 1000 Hours	<u>All of the above</u> -Steering arms bolts	-Components that show wear or appear damaged Re-torque to 120 Ft lbs. -Replace Hypoid Gear Lubricant in Drive Axles	N/A	N/A
Every 2000 Hours	<u>All of the above</u> -Steering arms bolts	-Components that show wear or appear damaged Re-torque to 120 Ft lbs.	RD52 FR357 9415 X27019505 A-TT4-00291-6 A-TT10-00291 1157 	Front Brake Pads Rear Brake Shoes Power Steering Belt Alternator Belt Headlight (Per 12/04) Headlight Tail Light Bulb

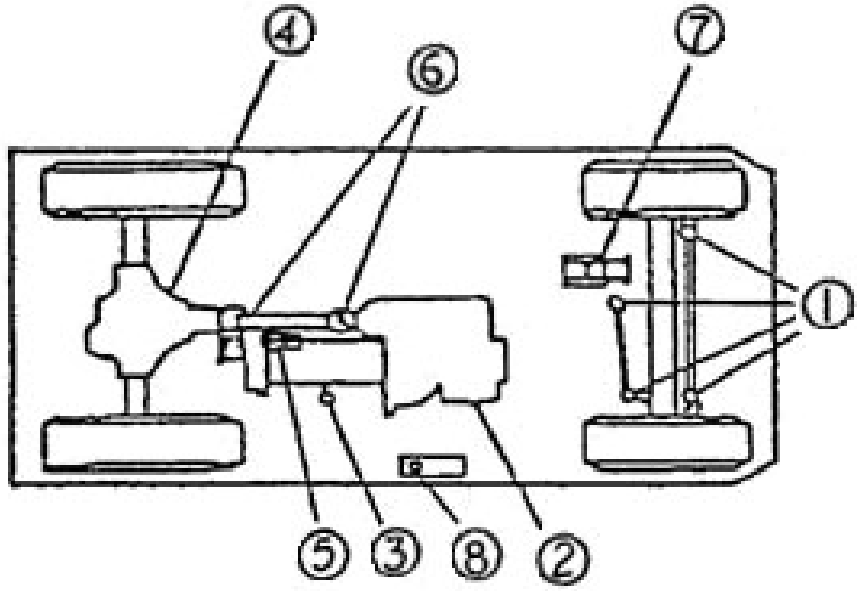
LUBRICATION CHART—TT SERIES-ALL WHEEL DRIVE



Item	Identification	Type Service	Lubricant
1	Steering Linkage	Lube	EP Multipurpose Grease
2	Transmission Oil*	Check	Dextron III
3	Engine Oil	Change	OE/HDO (MIL-L-2104)
4	Drive Axles	Check	GO 80-90 (MIL-L-2105)
5	Power Steering Pump	Check	Power Steering Fluid
6	Drive Shaft	Lube	EP Multipurpose Grease
7	Brake Master Cylinder	Check	Dot 3
8	Engine Coolant	Check	MIL-A-46153 (Ethylene Glycol)

*Check when engine is at operating temperature

LUBRICATION CHART—REAR WHEEL DRIVE



Item	Identification	Type Service	Lubricant
1	Steering Linkage	Lube	EP Multipurpose Grease
2	Transmission Oil*	Check	Dextron III
3	Engine Oil	Change	OE/HDO (MIL-L-2104) 15W-40 Motor Oil
4	Drive Axles	Check	GO 80-90 (MIL-L-2105)
5	Power Steering Pump	Check	Power Steering Fluid
6	Drive Shaft	Lube	EP Multipurpose Grease
7	Brake Master Cylinder	Check	Dot 3
8	Engine Coolant	Check	MIL-A-46153 (Ethylene Glycol)
*Check when engine is at operating temperature			

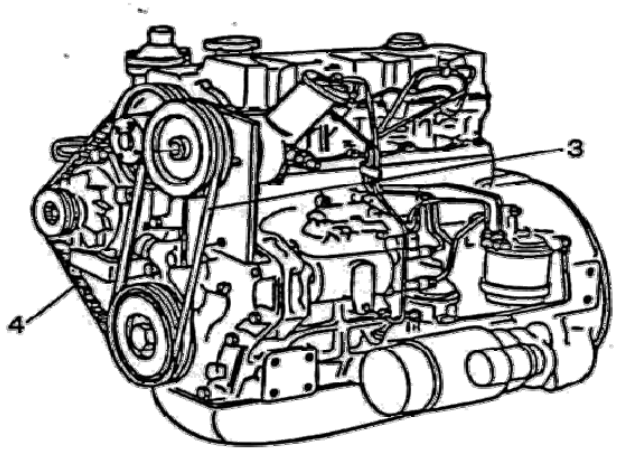
Service Parts Illustrations & Detail

Identification Key

The following abbreviations are used throughout the parts lists in this section.

Abbreviation	Meaning	Purpose
NL	Not Listed	Part required but not shown on diagram
NPN	No Part Number	Parts shown and numbered, but not stocked and sold by Eagle. Typically used for bolts, clamps, etc…
AR	As required	

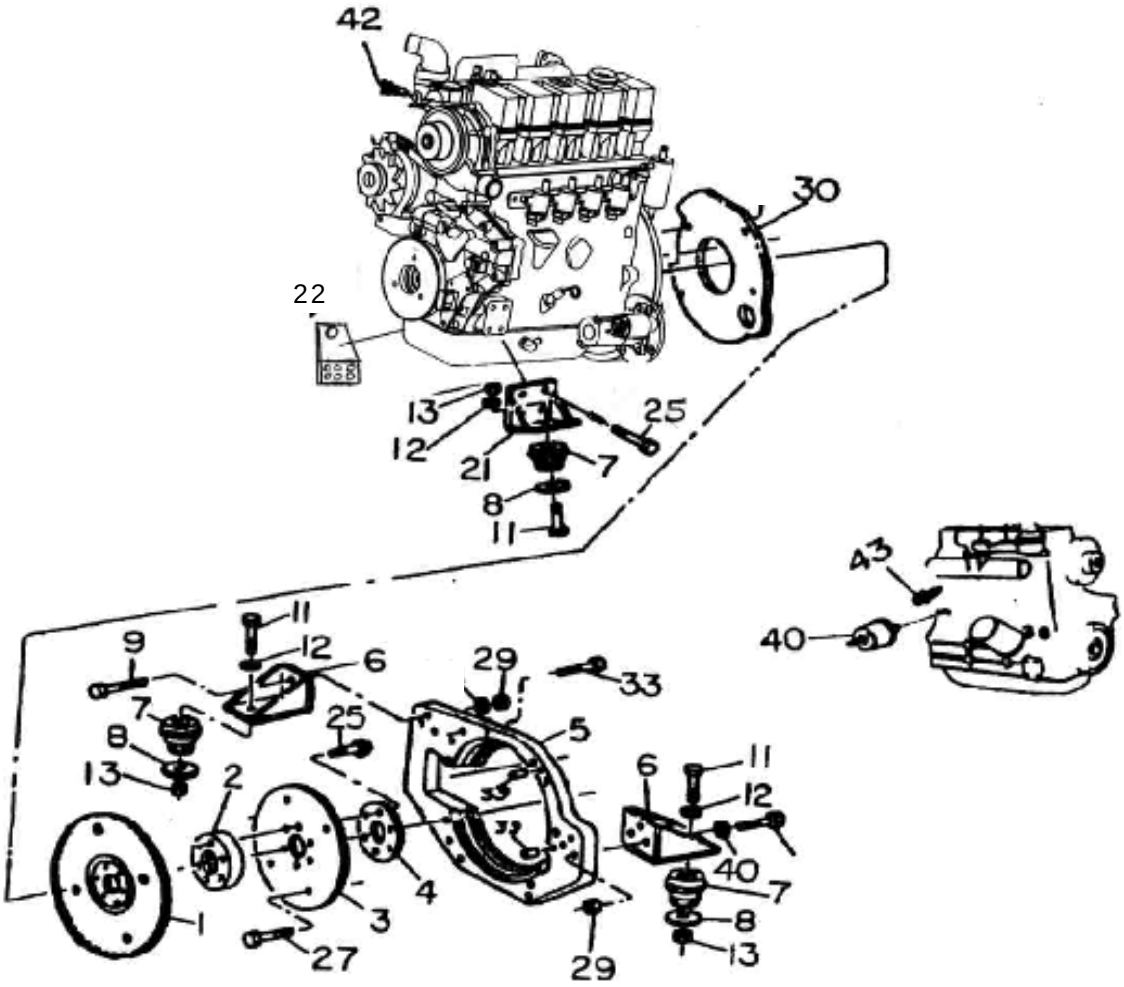
BELTS-DRIVE ACCESSORY



ITEM	PART NUMBER	QTY.	DESCRIPTION
3	9415	1	P/S Pump Belt
4	X27019504	1	Alternator Belt

NOTES

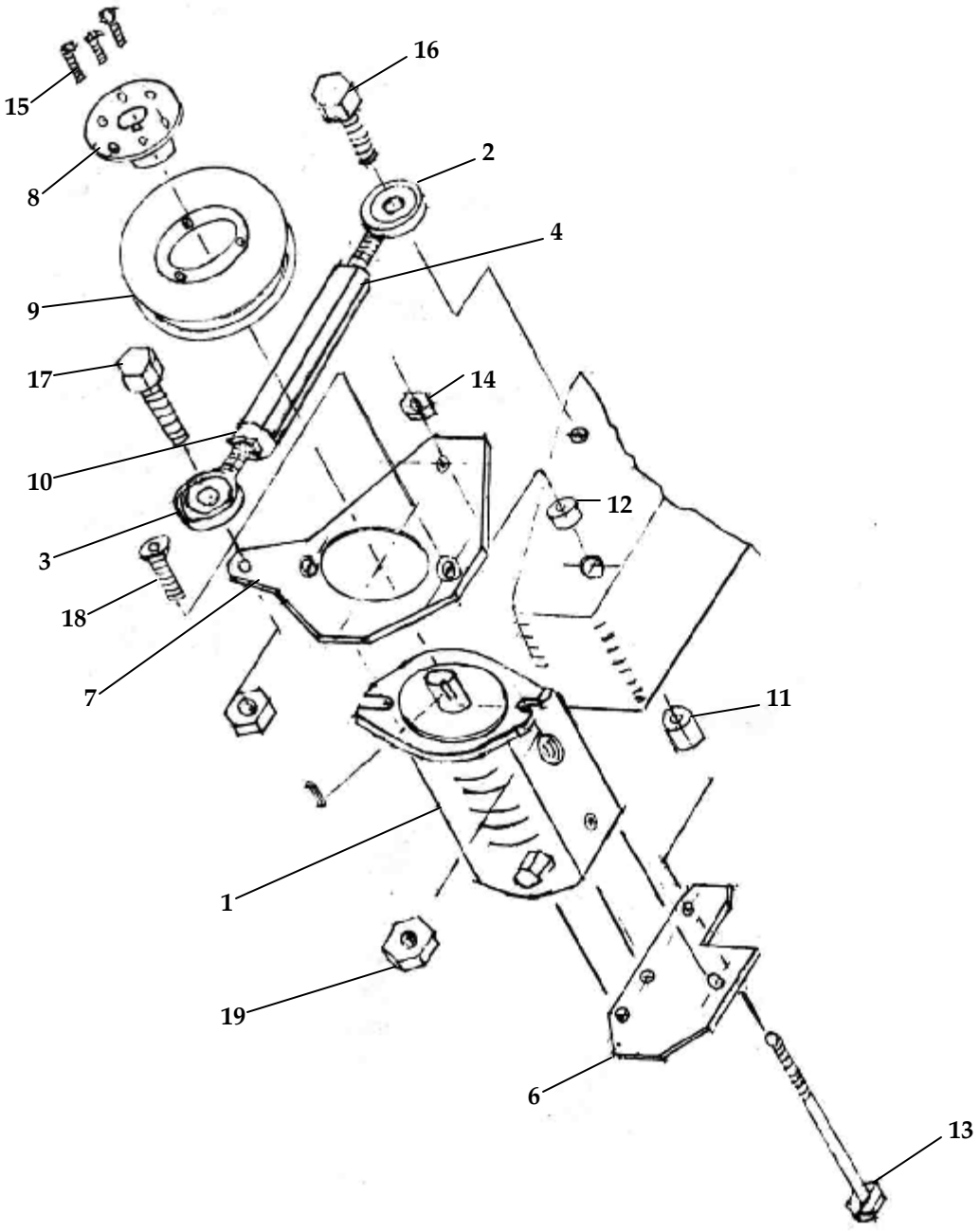
GAS ENGINE-DRESS INCLUDING MOUNTS



GAS ENGINE-DRESS INCLUDING MOUNTS—DETAIL

Item	Part Number	Qty	Description
1	TMD27C05470	1	FLYWHEEL ASSEMBLY
2	B-TT5D-00017-1	1	FLEX PLATE ADAPTER
3	TMD27C00610 MOD	1	FLEX PLATE
4	TMD27C00611	1	FLEX PLATE WASHER
5	B-TT10TD-00001-WI	1	ADAPTER PLATE TRANS
6	B-TT5D-00009	2	ENGINE MOUNT TRANS
7	A-TT5D-00013	4	MOUNT -RESILIENT
8	A-TT5D-00010	4	LORD WASHER
9	BOLT	6	BOLT 5/8-11 X 2 1/2 G8 HCS
11	BOLT	4	BOLT 3/4- 10 X 3 1/2 G8 HCS
12	WASHER	4	3/4 FLAT WASHER
13	NUT	4	3/4-10 LOCK NUT
21	B-TT5D-00006	1	ENGINE MOUNT R/H
22	B-TT5D-00005	1	ENGINE MOUNT L/H
25	BOLT	8	14-2.0 X 30 10.9 HCS
27	BOLT	4	SCREW-HEX-CAP M10-1.5 X 15
29	NUT	4	5/8-11 LOCK NUT
30	TMD27B00521 MOD	1	ENGINE PLATE
40	A-TT4-00651	1	SENDING UNIT OIL PRESSURE
42	A-TT4-00653-1	1	COOLING FAN SWITCH
43	A-TT4-00652	1	SENDING UNIT COOLANT TEMP

PRINCE PUMP



PRINCE PUMP—DETAIL

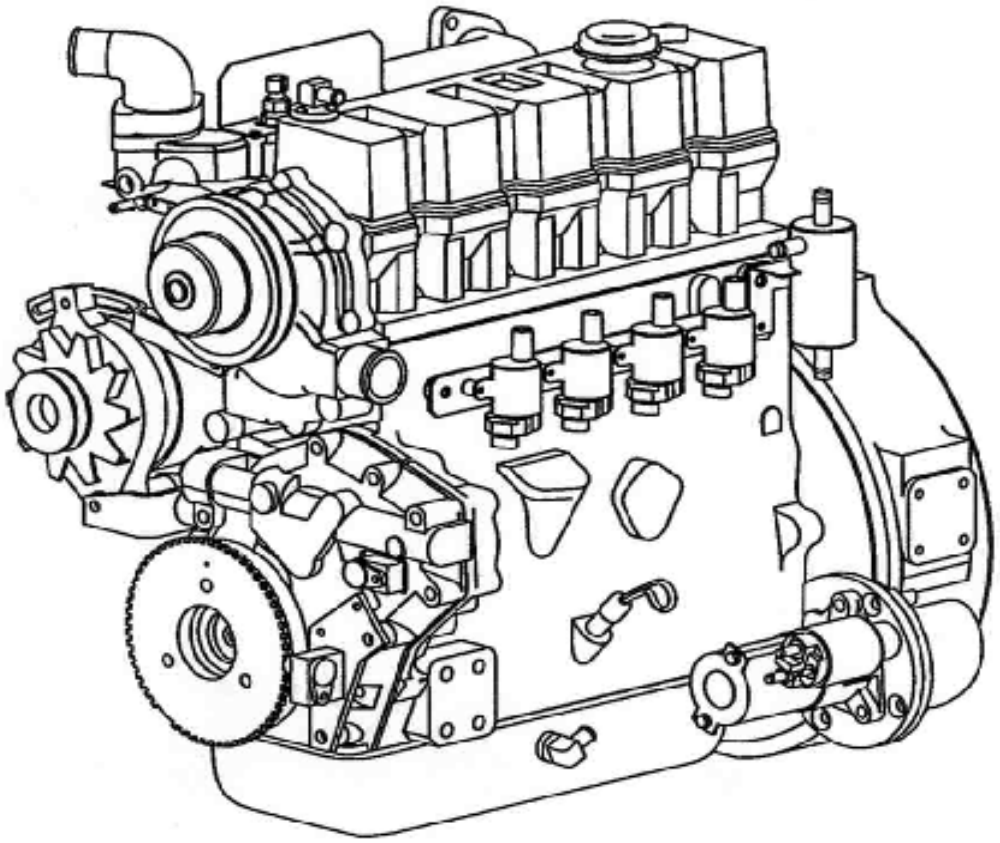
Item	Part Number	Qty	Description
1	SP20P11L145H2R	1	PRINCE PUMP
2	A-TT4-00214	1	BALL JOINT L/H THREAD
3	A-TT4-00215	1	BALL JOINT R/H THREAD
4	A-TT4-00216	1	PRINCE PUMP ADJUSTER
5	9415 (Not Shown)	1	PRINCE PUMP BELT
6	A-TT4-00826	1	PRINCE PUMP REAR BRK
7	A-TT4-00827	1	PRINCE PUMP FRONT BRK
8	A-TT10-00816	1	QD BUSHING
9	A-TT8-00814	1	PULLY
10	JAM NUT	1	7/16-14
11	SPACER	1	1 1/16
12	SPACER	1	1 9/16
13	BOLT	1	7/16-14 X 6 1/2 G8 HCS
14	NUT	1	7/16-14 LOCK
15	BOLT	3	1/4-20 X 3/4 G5 HCS
16	BOLT	1	10-1.5 X 40 10.9 HCS
17	BOLT	1	10-1.5 X 30 10.9 HCS
18	BOLT	2	3/8-16 X 1 1/2 FHSCS
19	NUT	2	3/8-16

PARTS MANUAL

CONTINENTAL TME27 ENGINE

2006 EPA & CALIFORNIA CERTIFIED

GASOLINE & LIQUID PROPANE GAS FUELS



WISCONSIN MOTORS, LLC

WM10366
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SERVICE FACILITIES

WISCONSIN MOTORS, L.L.C. Distributors and Service Centers, located throughout the U.S. and foreign countries, have been carefully selected to insure complete and efficient repair and inspection services to owners of **WISCONSIN MOTORS** Engines. These service centers, equipped and staffed for complete engine repair, also stock engine parts to facilitate immediate delivery for the complete line of **WISCONSIN MOTORS** Engines.

Order parts from the **WISCONSIN MOTORS, L.L.C.** Distributor or Service Center in your locality. Refer to the Yellow Pages of the Telephone Directory under **ENGINES**, or write to **WISCONSIN MOTORS, L.L.C.** for a free copy of a list of authorized Distributors and Service Centers. Do not order parts from **WISCONSIN MOTORS, L.L.C.** in Memphis, TN.

The MODEL, SPECIFICATION and SERIAL NUMBER of your engine must be given when ordering parts. The MODEL and SPECIFICATION number are on the name plate. The SERIAL NUMBER is stamped either on the crankcase or the engine name plate.

Copy the MODEL, SPECIFICATION and SERIAL NUMBER in the spaces provided below so that it will be available when ordering parts.

MODEL	SPECIFICATON

SERIAL NUMBER

To insure prompt and accurate service, the following information must also be given:

1. State EXACTLY the quantity of each part and part number.
2. State definitely whether parts are to be shipped by express, freight or parcel post.
3. State exact mailing address.

INTRODUCTION

This catalog is designed to identify Continental parts.

When ordering parts, it is always advisable to list the engine model, specification number and serial number. With this information, we can check your order for any incorrect part numbers. Use your Service Parts List to insure proper part number and nomenclature identification.

WISCONSIN MOTORS, L.L.C. reserves the right to modify, alter and improve engines and parts. Part numbers and the structure of parts may change from those shown in this catalog.

ENGINE SERVICE KITS

KIT NUMBER	DESCRIPTION
* TMD27U01007	Gasket Set, Top End
TM20T00102	Bearing Set, Connecting Rod (single rod)
TM27A05001E	Piston, Pin & Retaining Rings
TM27T00102	Bearing Kit, Crankshaft (engine set)
* TM27T00138	Kit, Oil Pan Gasket (RTV) & Rear Bearing Sealing
TM27T00120	Ring Set (single piston)
* TMD27U02004	Gasket Set, Front End
Not Available	Water Pump Repair Kit
Not Available	Cam Bushing

NOTE: * See Page 58 for Components.

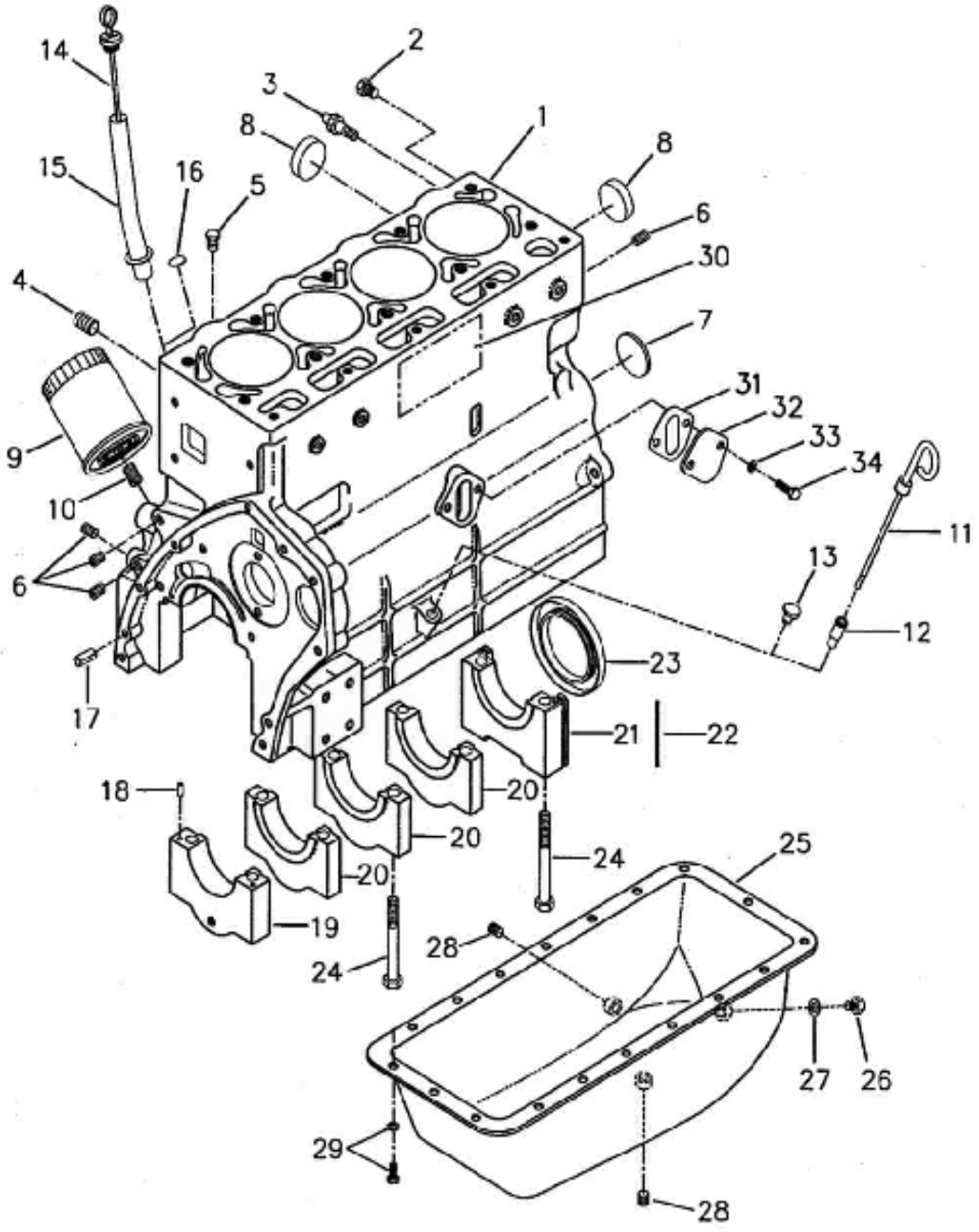
TME27-SB01 (Short Block)

Typically includes crankcase assembly, bearing caps, tappets, camshaft, main and rod bearings, crankshaft assembly, oil slinger—crankshaft, pistons, piston pins, piston rings, connecting rods, thrust plate, cam gear, crankshaft gear, cover-fuel pump hole, oil pump assembly with inlet tube assembly, lifting bracket, miscellaneous hardware and service gasket set.

TME27-LB01 (Long Block)

Typically includes all items in short block service assembly plus: cylinder head (including valve train), rocker arm shaft assembly, push rods, cylinder head cover, oil fillet cap, gear cover assembly and oil pan assembly.

CRANKCASE, BEARING CAPS and OIL FILTER



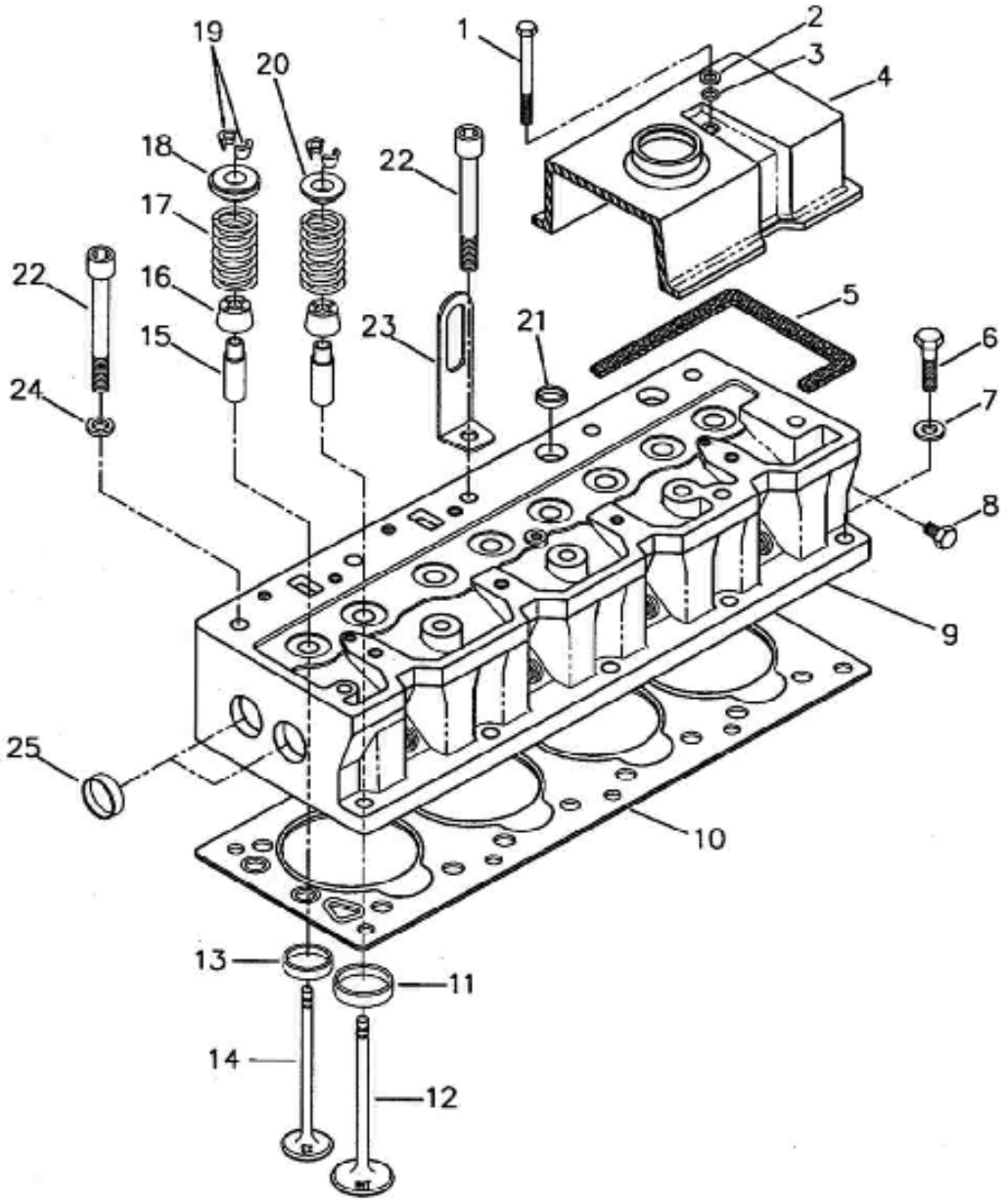
CRANKCASE, BEARING CAPS & OIL FILTER

ITEM	PART NO.	DESCRIPTION	QTY.
1	TME27-LB01	Long block, service assembly	1
—	TME27-SB01	Short block, service assembly	1
2	10200021	Plug, hex head, 1/4" NPT, brass, water drain	1
3	TM27M00303	Switch, low oil pressure, right side, rear hole	1
4	26XX00110	Plug, countersunk, 3/8" NPT, oil boss	1
5	26XX26167	Plug, hex head, 1/4" NPT, verticle gallery	1
6	26XX00137A	Plug, countersunk, 1/4" NPT, oil gallery	4
7	X02208	Plug, expansion, rear cam bore	1
8	X13304	Plug, cup, crankcase core hole, right side & rear	5
9	TM27L00213	Oil filter (with oil cooler-see page 53)	1
10	TM27L00202	Adapter, oil filter	1
11	TM27L04030	Oil gauge rod & cap-left side	1
12	F400L02911	Support, oil gauge rod (includes X07809 O-ring)-left side	1
13	X07663	Plug, crankcase, oil gauge rod hole-left side	1
14	TM27L00439	Oil gauge rod & cap-right side	1
15	TM27L00311	Support, oil gauge rod-right side	1
16	X02277	Plug, 1" dia, oil gauge rod hole-right side	1
17	X17025	Pin, dowel, gear cover to crankcase	2
18	TM27B00322	Dowel, bearing cap, front & rear (3/16" x 3/4" long)	4
19	TMD27B00402	Cap, crankshaft, front main bearing	1
20	TMD27B00403	Cap, crankshaft, intermediate main bearing	3
21	TMD27B00406	Cap, crankshaft, rear main bearing	1
22	[b]X07840	Insert, curing, rear main bearing cap	2
23	TMD27L00501	Seal, oil rear crankshaft (one piece)	1
24	XM32137	Screw, HHCS, M14 x 95mm long	10
25	[a]TM27L00525	Oil pan assembly (includes items 26, 27 & 28)	1
26	F400B00282	Plug, oil drain 1/2-20	1
27	X14583	Washer, flat, .515, nylon	1
28	26XX00110	Plug, countersunk, 3/8" NPT	2
29	XM32077	Screw & washer, M8 x 16 long	18
30	----------	Nameplate (standard location)-not serviced	1
31	X07872	Gasket, fuel pump	1
32	F600B00234	Cover, fuel pump	1
33	X14192	Washer, .344", lock	2
34	XM32028	Screw, M8 x 25 long	2

NOTE: [a] Refer to the "Engine Specification Number" when ordering parts to determine the correct part number.

[b] Included in the Oil Pan Gasket (RTV) & Rear Bearing Sealing Kit TM27T00138.

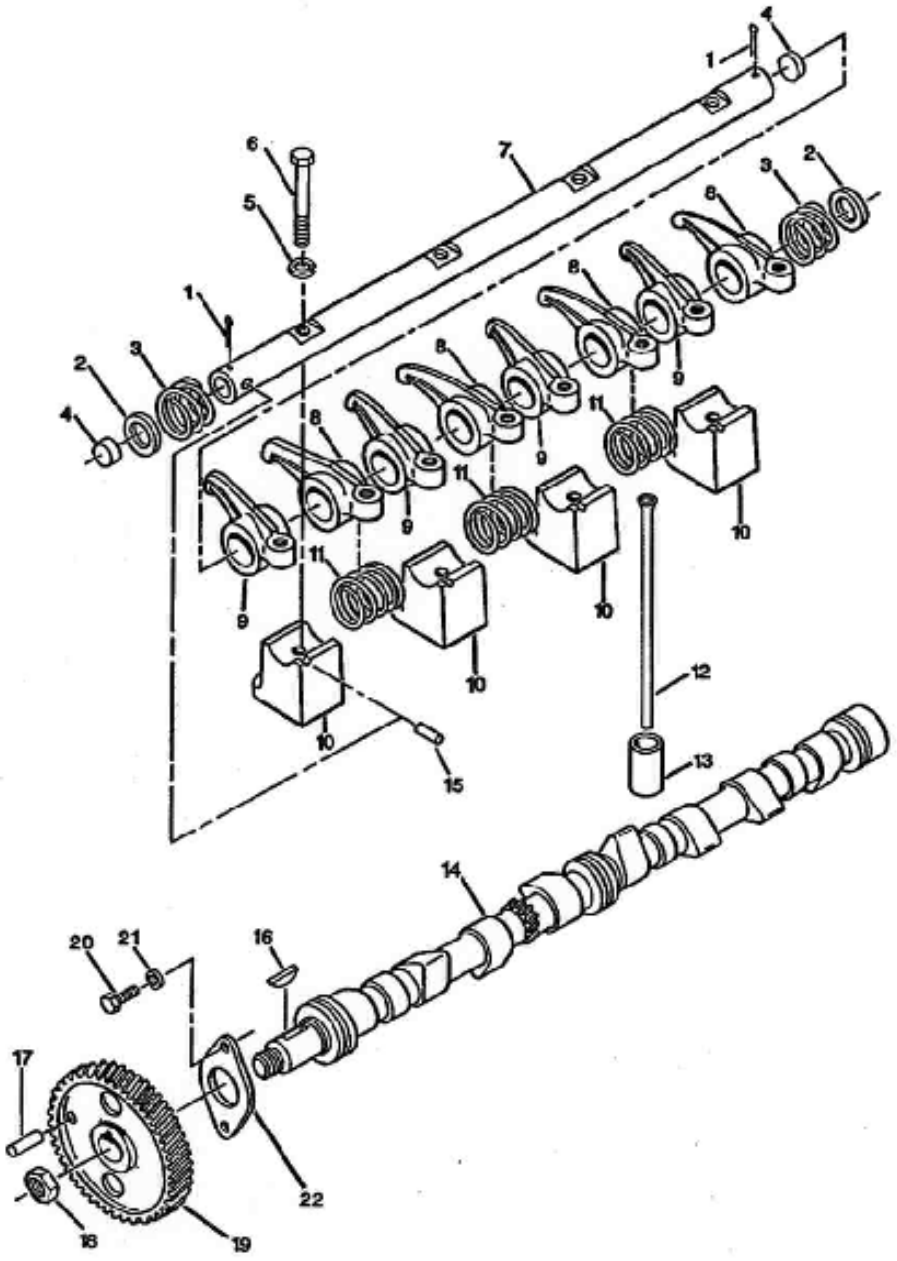
CYLINDER HEAD, COVER and VALVES
TM27A04124 HEAD ASSEMBLY



CYLINDER HEAD, COVER and VALVES
TM27A04124 HEAD ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
—	TM27A04124	Head assembly, cylinder	1
1	XM32072	Screw, M8 x 85 long	3
2	X14596	Washer, .344", flat	3
3	XM39000	O-ring, cylinder head cover	3
4	TM27A00623	Valve cover (see page 34 for assembly parts)	1
5	TM27A00502	Gasket, cylinder head cover	1
6	XM32021	Screw, M10 x 40 long	5
7	X14141	Washer, .406, flat	5
8	26XX26129	Plug, left rear oil gallery	1
9	TM27A05120	Head, cylinder, service (includes items 8, 9, 11-21 & 25)	1
10	TMD27A00614	Gasket, cylinder head	1
11	TMD27A00402	Insert, intake valve seat	4
12	TM27I00504	Valve, intake	4
13	TM27A00210	Insert, exhaust valve seat	4
14	TM27I00509	Valve, exhaust, Stellite	4
15	TM27I00318	Guide, valve, intake & exhaust	8
16	TM27I00319	Seal, valve stem oil, intake & exhaust	8
17	TM27I00309	Spring, intake & exhaust	8
18	TM27I00308	Roto-coil, exhaust	4
19	AH19	Lock, valve spring retainer	16
20	TM27I00300	Retainer, valve spring, intake	4
21	X07689	Plug, cup, cylinder head top	2
22	XM32134	Screw, SHCS, M12 x 1.75 x 130 long	10
23	TM27Z00402	Bracket, engine lifting	1
24	XM37003	Washer, M12, flat	9
25	X02583	Plug, cup, cylinder head, front & rear	4

CAMSHAFT and ROCKER ARMS

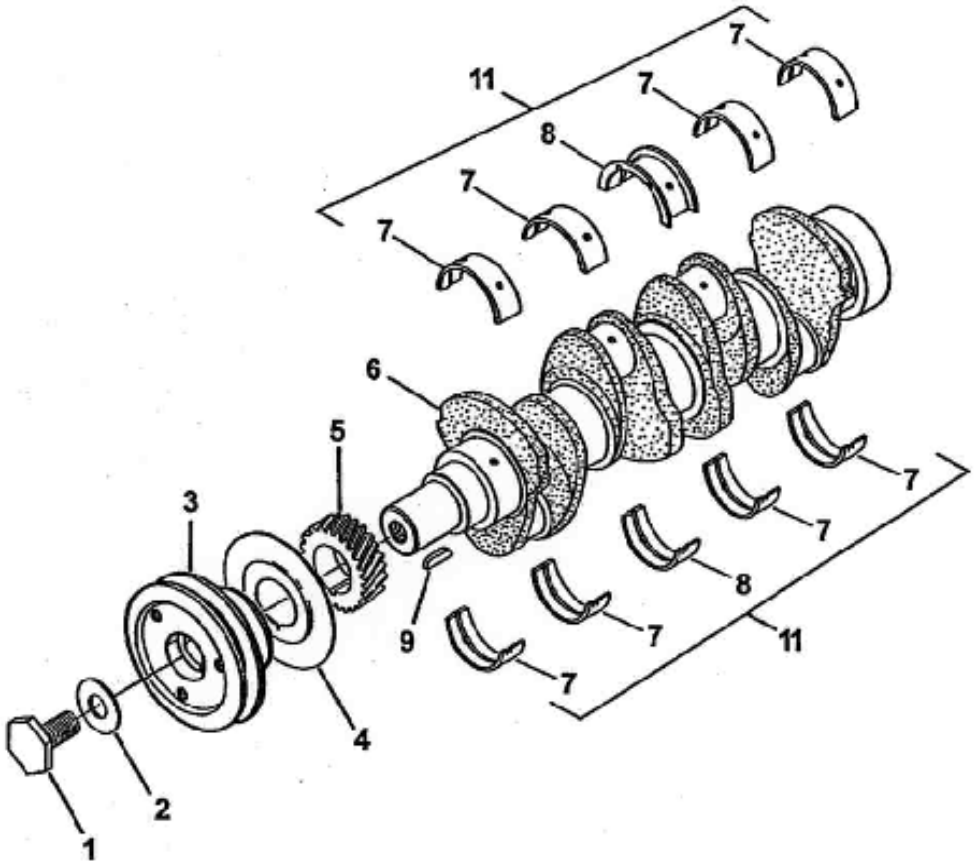


CAMSHAFT and ROCKER ARMS

ITEM	PART NO.	DESCRIPTION	QTY.
——	TM27I05164	Complete rocker arm shaft assembly (includes items 1-11)	1
1	X00623	Pin, cotter	2
2	X14589	Washer, rocker shaft	2
3	TM27I00313	Spring, rocker arm shaft	2
4	X07815	Plug, rocker arm shaft	2
5	XM37005	Washer, flat, rocker arm shaft to cylinder head	4
6	XM32031	Screw, rocker arm shaft to cylinder head	4
7	TM27I05162	Shaft, rocker arm w/ plugs (includes item 4)	1
8	TM27I05150	Arm asembly, rocker, intake	4
9	TM27I05140	Arm assembly, rocker, exhaust	4
——	*TM27I00317	Screw, adjusting (not shown-part of rocket arm assembly)	8
10	TM27I00314	Support, rocker arm shaft	4
11	TM27I00303	Spring, rocker arm shaft	3
12	TM27I00403	Push rod	8
13	TM27J00305	Tappet, valve	8
14	TMD27I00402	Camshaft	1
15	X17066	Pin, front support to shaft	1
16	X00599D	Key, cam gear to camshaft	1
17	TM27H00201	Pin, cam position	1
18	X18255	Nut, cam shaft gear (torque to 85lb/ft)	1
19	TM27H00411	Gear, cam shaft, 21"	1
20	XM32019	Screw, thrust plate to crankcase	2
21	XM37012	Washer, lock, thrust plate to crankcase	2
22	F400100246	Plate, camshaft thrust	1

* Not serviced separately.

CRANKSHAFT and PULLEY



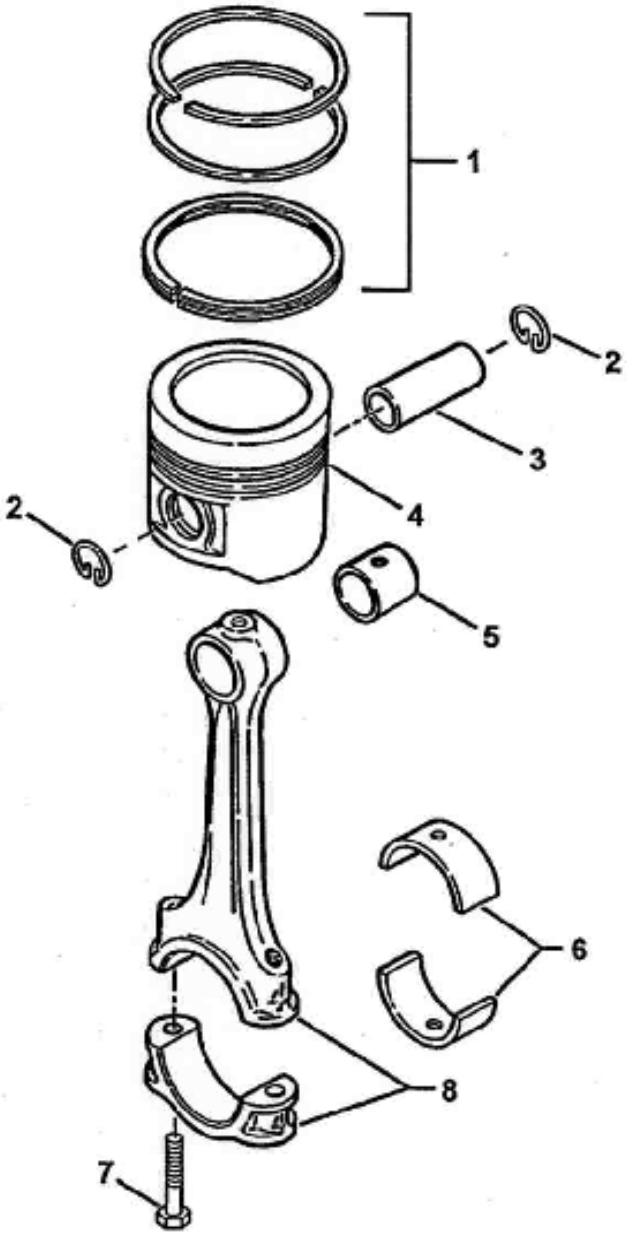
CRANKSHAFT and PULLEY

ITEM	PART NO.	DESCRIPTION	QTY.
1	XM32064	Screw, M16 x 35 long-36mm head	1
2	XM37014	Washer, flat, crankshaft pulley to crankshaft	1
3	TM27C00401	Pulley, crankshaft (w/ PTO machining)	1
4	TM27C00408	Slinger, oil	1
5	TM27H00407	Gear, crankshaft, 21°	1
6	TMD27C03050	Crankshaft (includes items 9 & 10)	1
7	*10071001	Contains: two (2) 1/2 shell bearings with NO flange bearing	4
8	*10071002	Contains: one (1) shell bearing and one (1) shell bearing with flange	1
9	X00666	Key, crankshaft gear & pulley to crankshaft	1
10	X00692	Key, crankshaft (see page 13, item 9)	1
11	TM27T00102	Bearing kit, crankshaft (includes items 7 & 8)	1

NOTE: * Shell Bearings are serviced in:

Standard-10071001	Standard-10071002
0.25mm-1007100125	0.25mm-1007100225
0.50mm-1007100150	0.50mm-1007100250

PISTON and CONNECTING ROD

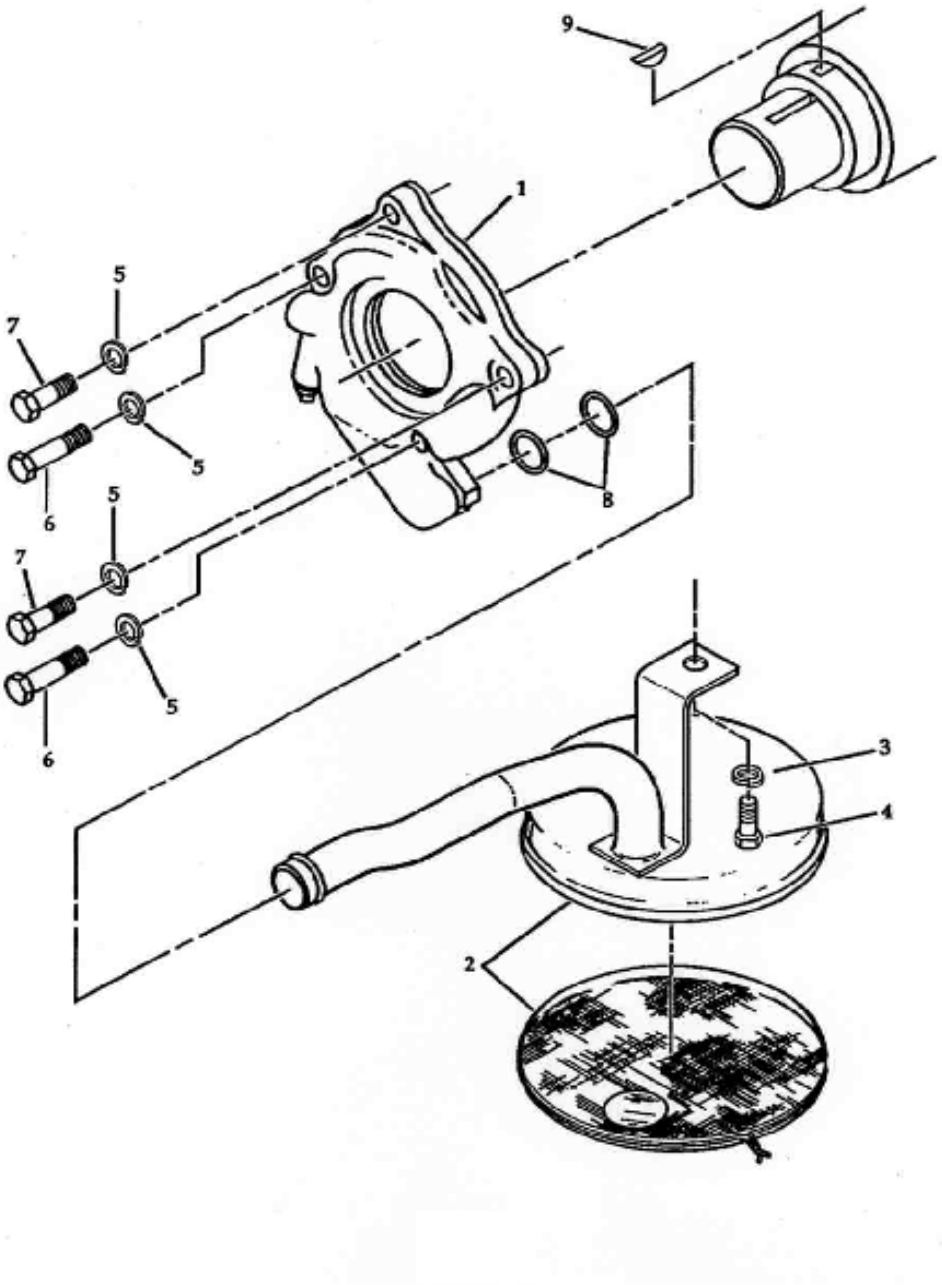


PISTON and CONNECTING ROD
TM27A05141 Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
1	[a]TM27T00120	Ring set (single piston)	4
2	K800A00203	Ring, retaining, piston pin	8
3	TMD27A00300	Pin, piston	4
4	[b]TM27A05002E	Piston (includes item 2 & 3)	4
5	TM27G00304	Bushing, piston pin	4
6	[c]- - - —	Bearing, connecting rod, upper & lower	8
7	Z145D00300	Bolt, connecting rod	8
8	TMD27D03002	Rod assembly, connecting (includes items 5 & 7)	4
9	[d]TM20T00102	Bearing set, connecting rod (single rod, includes item 6)	4

NOTE:
- [a] Piston Ring Sets are serviced in:
  - Standard-TM27T00120 (single piston set)
  - 0.50mm-TM27T0012050 (single piston set)
  - 0.75mm-TM27T0012075 (single piston set)
  - 1.00mm-TM27T00120100 (single piston set)
- [b] Pistons are serviced in:
  - Standard-TM27A05002E
  - 0.50mm-TM27A05002E50
  - 0.75mm-TM27A05002E75
  - 1.00mm-TM27A05002E100
- [c] Included in item 9.
- [d] Connecting Rod Bearings are serviced in:
  - Standard-TM20T00102 (single rod set)
  - 0.25mm-TM20T00102025 (single rod set)
  - 0.50mm-TM20T00102050 (single rod set)
  - 0.75mm-TM27T00102075 (single rod set)
  - 1.00mm-TM27T00102100 (single rod set)

OIL PUMP ASSEMBLY

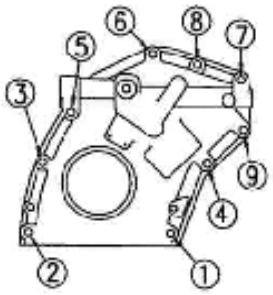


OIL PUMP ASSEMBLY

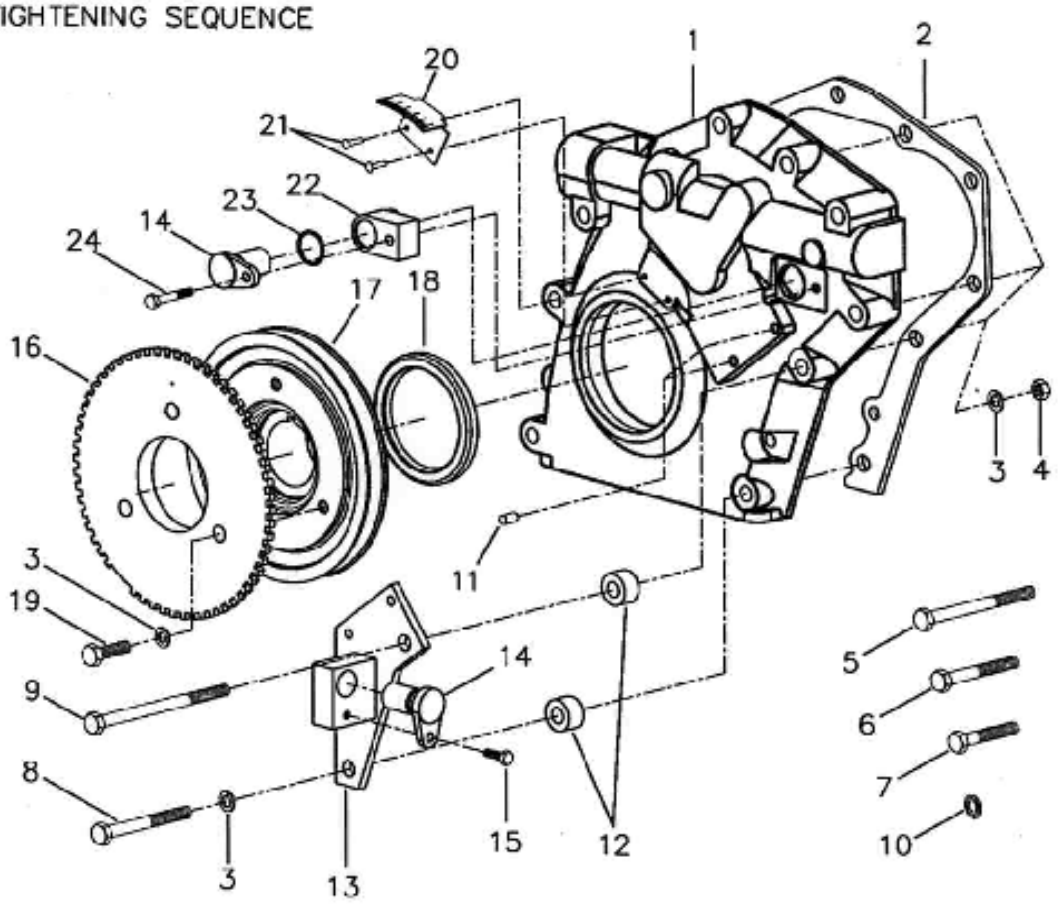
ITEM	PART NO.	DESCRIPTION	QTY.
1	*TM27L06090	Oil pump assembly	1
2	TM27L05180	Tube assembly, oil pump inlet	1
3	XM37001	Washer, M10, lock, tube to center bearing cap	1
4	XM32052	Screw, M10 x 20 long, tube to center bearing cap	1
5	XM37002	Washer, M8, lock, oil pump to crankcase	4
6	XM32041	Screw, M8 x 45 long, oil pump to crankcase	2
7	XM32039	Screw, M8 x 30 long, oil pump to crankcase	2
8	X06414	Seal, O-ring, oil pump inlet tube	2
9	X00692	Crankshaft key, Woodruff #61	1

NOTE: * Oil pump components are not serviced separately.

GEAR COVER & TIMING SENSORS



BOLT LOCATION &
TIGHTENING SEQUENCE

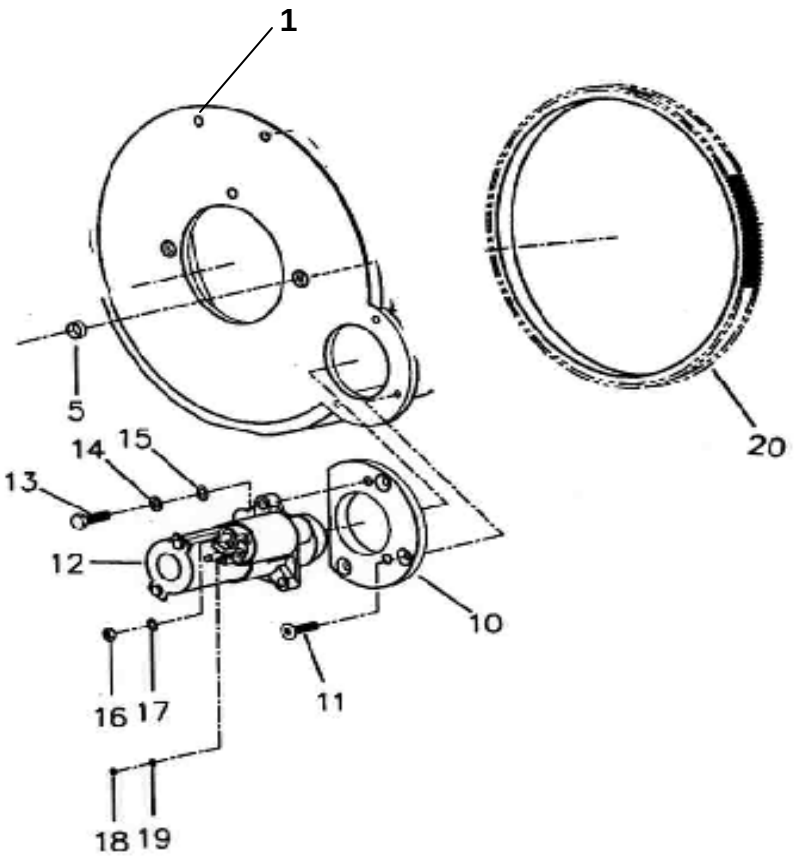


GEAR COVER & TIMING SENSORS

ITEM	PART NO.	DESCRIPTION	QTY.
1	TM27B00634	Gear cover	1
2	[a]TM27B00529	Gasket, gear cover	1
3	XM37001	Washer, M10, lock (location 1, 4, 5, 6, 7, 8, 9 & item 19)	10
4	15XXM35000	Nut, M10 x 1.5 (location 4, 8 & 9)	3
5	XM32068	Screw, M10 x 90 (location 8 & 9)	2
6	XM32115	Screw, M10 x 60 (location 5 & 7)	2
7	XM32026	Screw, M10 x 45 (location 2, 3 & 6)	3
8	XM32067	Screw, M10 x 70 (location 1)	1
9	XM32007	Screw, M10 x 110 (location 4)	1
10	X14134	Washer, copper, M10 (location 2 & 3)	2
11	X07874	Dowel pin, .25" Dia x .50" long	2
12	TM27B00426	Spacer, bracket, crank trigger	2
13	TM27B00425	Bracket, crank trigger	1
14	TM27M00326	Sensor, cam/crank	2
15	XD4	Screw, HHCS 1/4-20 x 1/2" long	1
16	TM27H00412	Crank trigger wheel	1
17	TM27C00401	Pulley, crankshaft w/ PTO mtg (see item 3 pg 9)	1
18	X07845	Seal, crankshaft	1
19	XM32073	Screw, M10 x 25	3
20	TM27B00419	Timing pointer plate	1
21	X22149	Screw, drive #6 x 5/16, timing pointer to GC	2
22	TM27B00424	Adapter - cam sensor	1
23	X07875	O-ring, 5/8" ID x 1/16" - sensor, cam	1
24	XD8	Screw, HHCS 1/4-20 x 1 1/4" long	1

[a] Included in Front End Gasket Set TMD27U02004.

STARTER

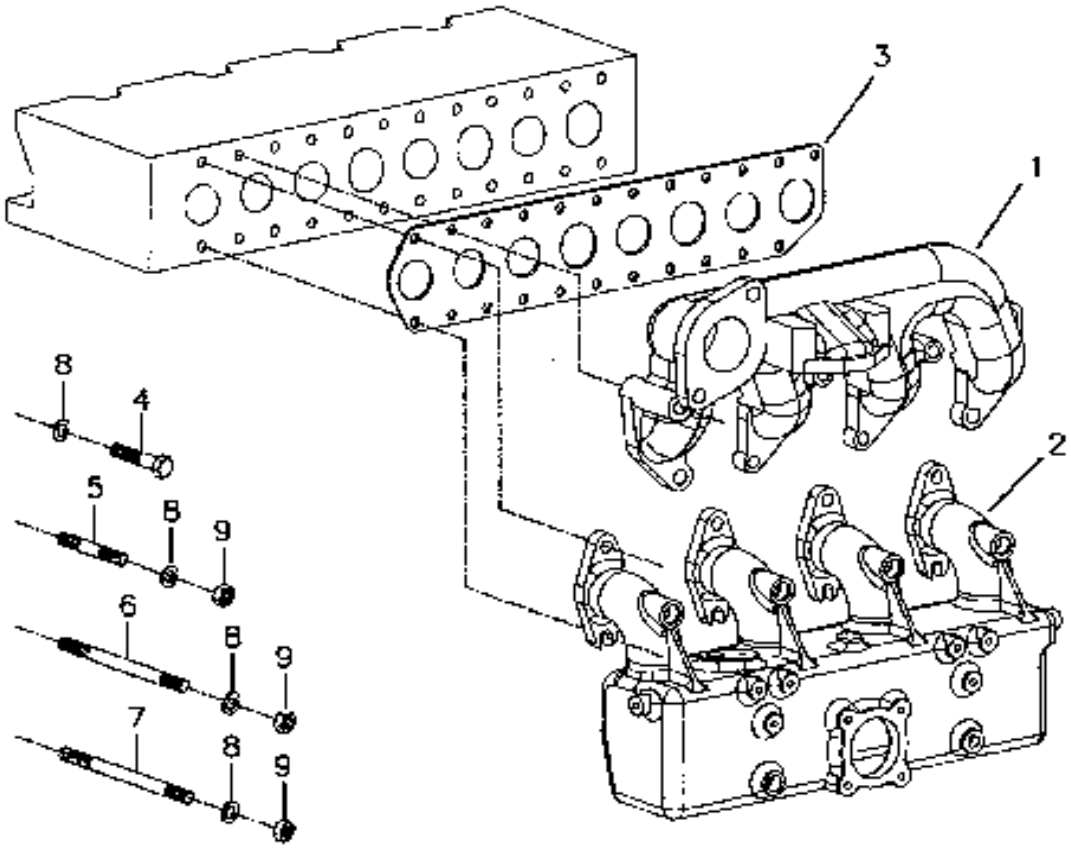


STARTER—DETAIL

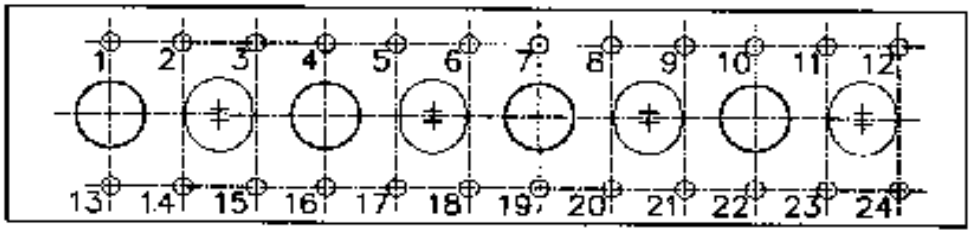
ITEM	PART NUMBER	QTY.	DESCRIPTION
1	TMD27B00521 MOD	1	ENGINE PLATE
5	X07005	2	DOWEL, RING, FLYWHEEL HOUSING TO CRANKCASE
10	TM27B00533	1	ADAPTER, DELCO STARTER TO HOUSING
11	XC58	3	SCREW, 3/8-16 X 1" FHSCS
12	TM27M00520	1	STARTER (DELCO)
13	XD28	2	SCREW, 3/8-16 X 1 1/8" LONG
14	PE5	2	WASHER, 3/8", LOCK
15	PH66	2	WASHER, FLAT .406" ID
16	XM35002	1	NUT, M8 X 1.25
17	PE46	1	WASHER, 5/16", ET LOCK
18	XM35004	1	NUT, M5 X 0.8
19	PE113	1	WASHER, #10, IT LOCK
20	TM27C00524	1	RING GEAR, 12/14P FOR DELCO STARTER

INTAKE and EXHAUST MANIFOLD

TM27F00544–Side Inlet & TM27F00552–Rear Inlet Manifolds



TM27F00544 Side Inlet Manifold Shown
TM27F00552 Rear Inlet Manifold
LPG Manifolds (side & rear inlet)



HARDWARE LOCATIONS

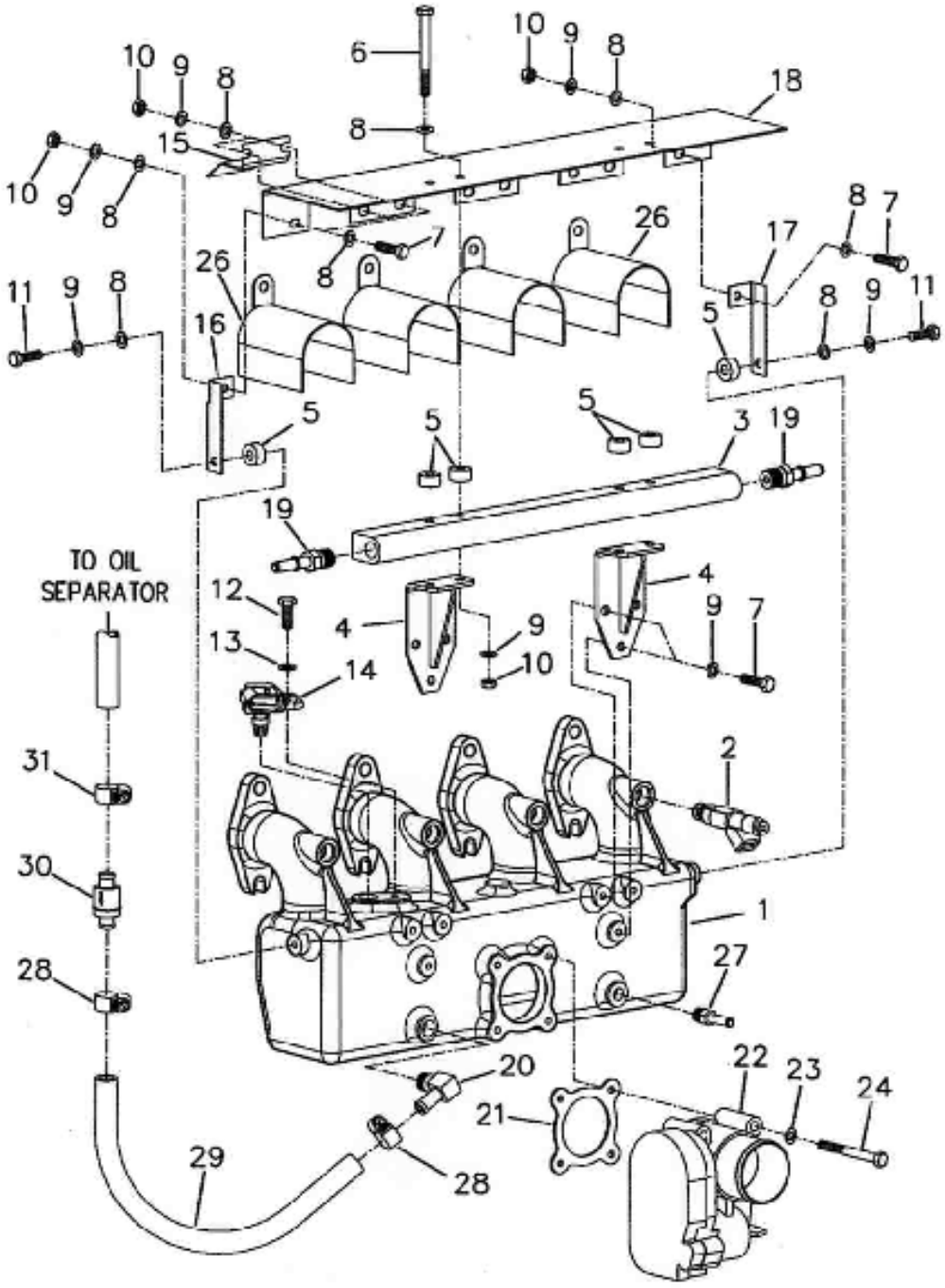
INTAKE and EXHAUST MANIFOLD

ITEM	PART NO.	DESCRIPTION	QTY.
1	[a]TM27E00600	Manifold, exhaust	1
2	[a]TM27F00544	Manifold, intake, side inlet, gasoline & dual fuel	1
	[a]TM27F00547	Manifold, intake, side inlet, LP-not shown	1
	[a]TM27F00552	Manifold, intake, rear inlet, gasoline & dual fuel-not shown	1
	[a]TM27F00554	Manifold, intake, rear inlet, LP-not shown	1
3	[b]TM27E00503	Gasket, manifold, intake and exhaust	1
4	XM32039	Screw, M8 x 30 long, top location intake (loc 1, 4, 7 & 10)	4
5	XM32022	Stud, M8 x 40 long (loc 12, 13, 15, 16, 17, 19, 20, 22 & 23)	9
6	XM32050	Stud, M8 x 80 long (loc 6 & 9)	2
7	XM32080	Stud, M8 x 85 long (loc 2)	1
8	XM37005	Washer, M8, flat	16
9	24XXM35002	Nut, M8	12

NOTE: [a] Refer to the "Engine Specification Number" when ordering parts to determine the correct part number.

[b] Included in Top End Gasket Set TMD27U01007

INTAKE MANIFOLD, EFI and HEAT SHIELD
SIDE INLET-GASOLINE

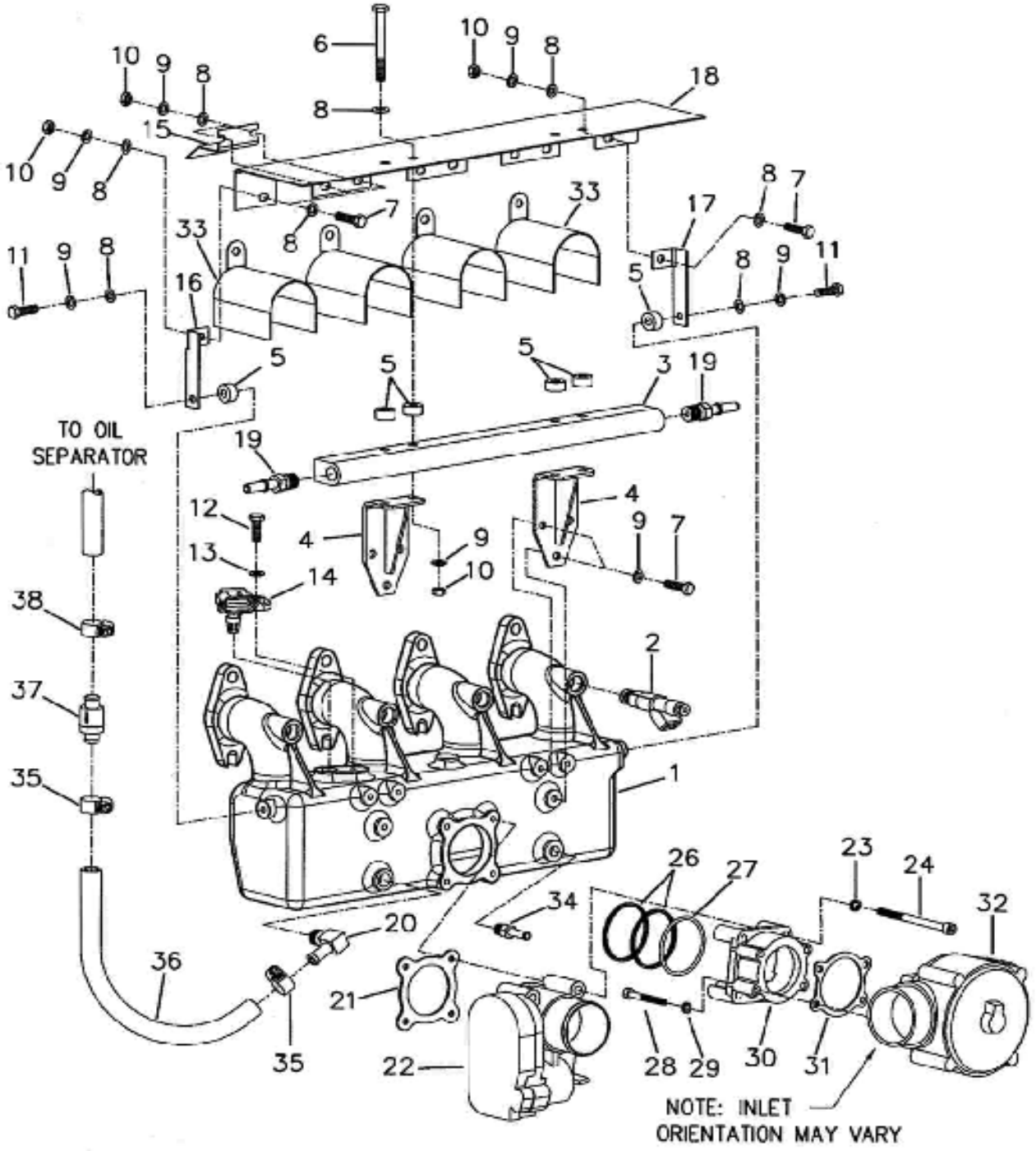


INTAKE MANIFOLD, EFI and HEATSHIELD
SIDE INLET-GASOLINE

ITEM	PART NO.	DESCRIPTION	QTY.
—	*TM27F05450	Assembly, EFI, side inlet, gas (includes items 1-25)	1
1	*TM27F00544	Intake manifold, side inlet, plenum	1
2	TM27F00331	Injector	4
3	TM27F00462	Fuel rail	1
4	TM27F00463	Bracket, fuel rail	2
5	TM27F00234	Spacer, heat shield	6
6	XM32157	Screw, M6 x 50 long	4
7	XM32008	Screw, M6 x 16 long	10
8	XM36000	Washer, M6, flat	14
9	XM37000	Washer, M6, lock	16
10	XM35001	Nut, M6, Hex	8
11	XM32009	Screw, M6 x 25 long	2
12	XM32014	Screw, M6 x 20 long	1
13	XM36000	Washer, M6, flat	1
14	TM27F00235	Sensor, TMAP	1
15	TM27F00333	Heat shield, TMAP	1
16	TM27F00335	Heat shield, support, rear	1
17	TM27F00334	Heat shield, support, front	1
18	TM27F00546	Heat shield, fuel rail	1
19	X26227	Fitting, 1/4P x SAE J2044	2
20	RF1560	Elbow, 1/4P x 3/8H	1
21	TM27F00332	Gasket, throttle body	1
22	TM27F00545	Throttle body, 40mm	1
23	XM37000	Washer, M6, lock	4
24	XM32157	Screw, M6 x 50 long	4
25	X02288	Plug, cup, 1 1/2" dia (not shown)	4
26	TM27F00466	Heat shield, injector	4
27	RF1567	Fitting, straight, 1/8P x 3/16H	1
28	X02864	Clamp, hose	2
29	LL207-16	Hose, 3/8" ID x 16" long	1
30	LO230	Valve, PCV	1
31	X02812	Clamp, hose, #10	1

NOTE: * Refer to the "Engine Specification Number" when ordering parts to determine the correct part number.

INTAKE MANIFOLD, EFI and HEAT SHIELD
SIDE INLET-DUAL FUEL

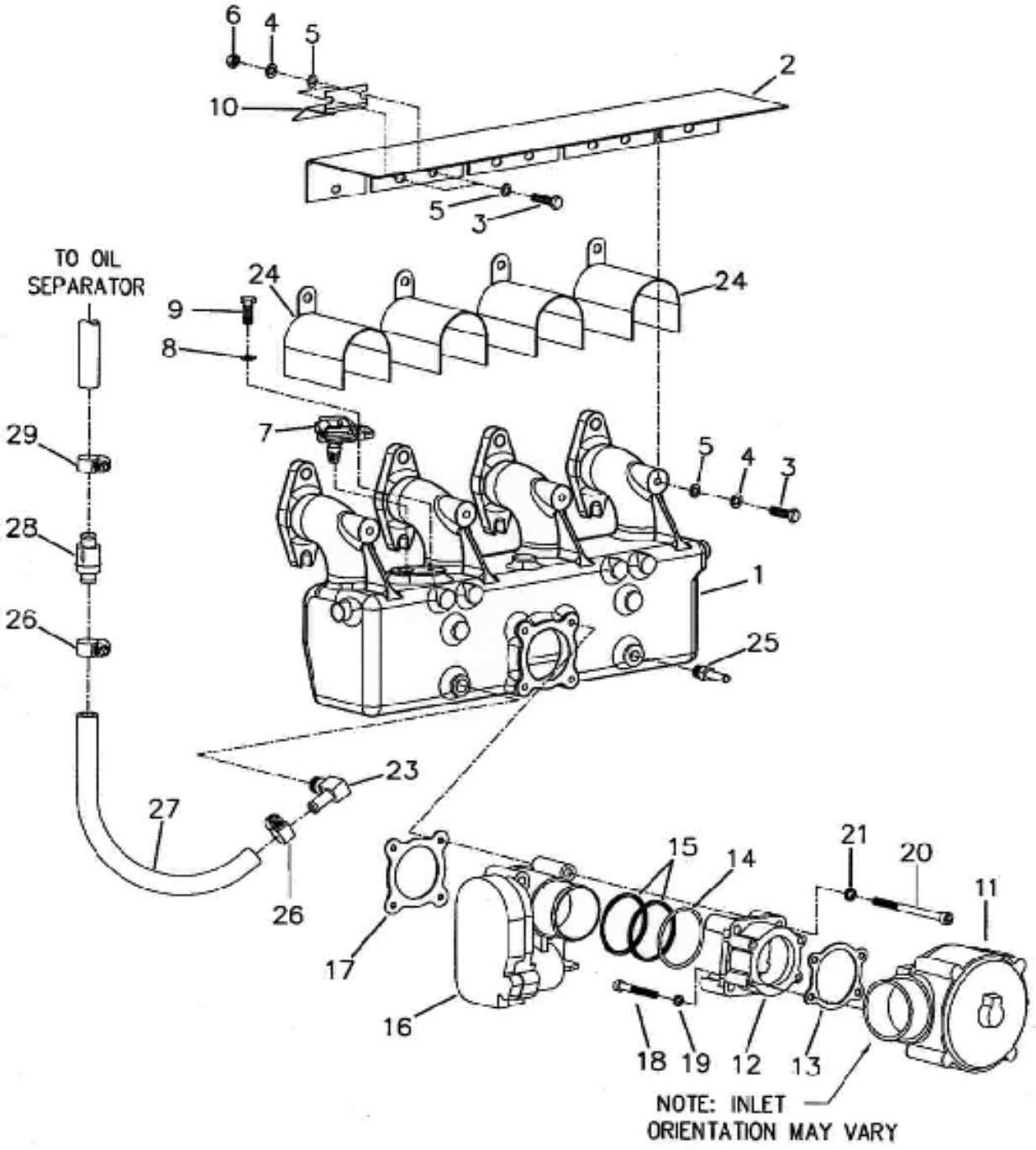


INTAKE MANIFOLD, EFI and HEAT SHIELD
SIDE INLET-DUAL FUEL

ITEM	PART NO.	DESCRIPTION	QTY.
—	* TM27F05470	Assembly, EFI, side inlet, dual fuel (includes items 1-32)	1
1	* TM27F00544	Intake manifold, side inlet, plenum	1
2	TM27F00331	Injector	4
3	TM27F00462	Fuel rail	1
4	TM27F00463	Bracket, fuel rail	2
5	TM27F00234	Spacer, heat shield	6
6	XM32157	Screw, M6 x 50 long	4
7	XM32008	Screw, M6 x 25 long	10
8	XM36000	Washer, M6, flat	14
9	XM37000	Washer, M6, lock	16
10	XM35001	Nut, M6, hex	8
11	XM32009	Screw, M6 x 16 long	2
12	XM32014	Screw, M6 x 20 long	1
13	XM36000	Washer, M6, flat	1
14	TM27F00235	Sensor, TMAP	1
15	TM27F00333	Heat shield, TMAP	1
16	TM27F00335	Heat shield, support, rear	1
17	TM27F00334	Heat shield, support, front	1
18	TM27F00546	Heat shield, fuel rail	1
19	X26227	Fitting, 1/4P x SAE J2044	2
20	RF1560	Elbow, 1/4P x 3/8H	1
21	TM27F00332	Gasket, throttle body	1
22	TM27F00545	Throttle body, Bosch, 40 mm	1
23	XM37023	Washer, M6, lock, high collar	4
24	XM32158	Screw, M6 x 75 long, socket head	4
25	X02288	Plug, cup, 1 1/2" dia (not shown)	4
26	X07877	Quad ring, 134, adapter to throttle body	2
27	X07876	O-ring, 134, adapter to throttle body	1
28	X22153	Screw, #12 x 1 1/2" long	4
29	X00228	Washer, #12, lock	4
30	TM27F00558	Adapter, throttle valve	1
31	TM27F00246	Gasket, adapter to mixer	1
32	TM27F00550	Mixer, LPG	1
33	TM27F00466	Heat shield, injector	4
34	RF1567	Fitting, straight, 1/8P x 3/16H	1
35	X02864	Clamp, hose	2
36	LL207-16	Hose, 3/8" ID x 16" long	1
37	LO230	Valve, PCV	1
38	X02812	Clamp, #10 worm	1

NOTE: * Refer to the "Engine Specification Number" when ordering parts to determine the correct part number.

INTAKE MANIFOLD, EFI and HEAT SHIELD
SIDE INLET-LPG ONLY

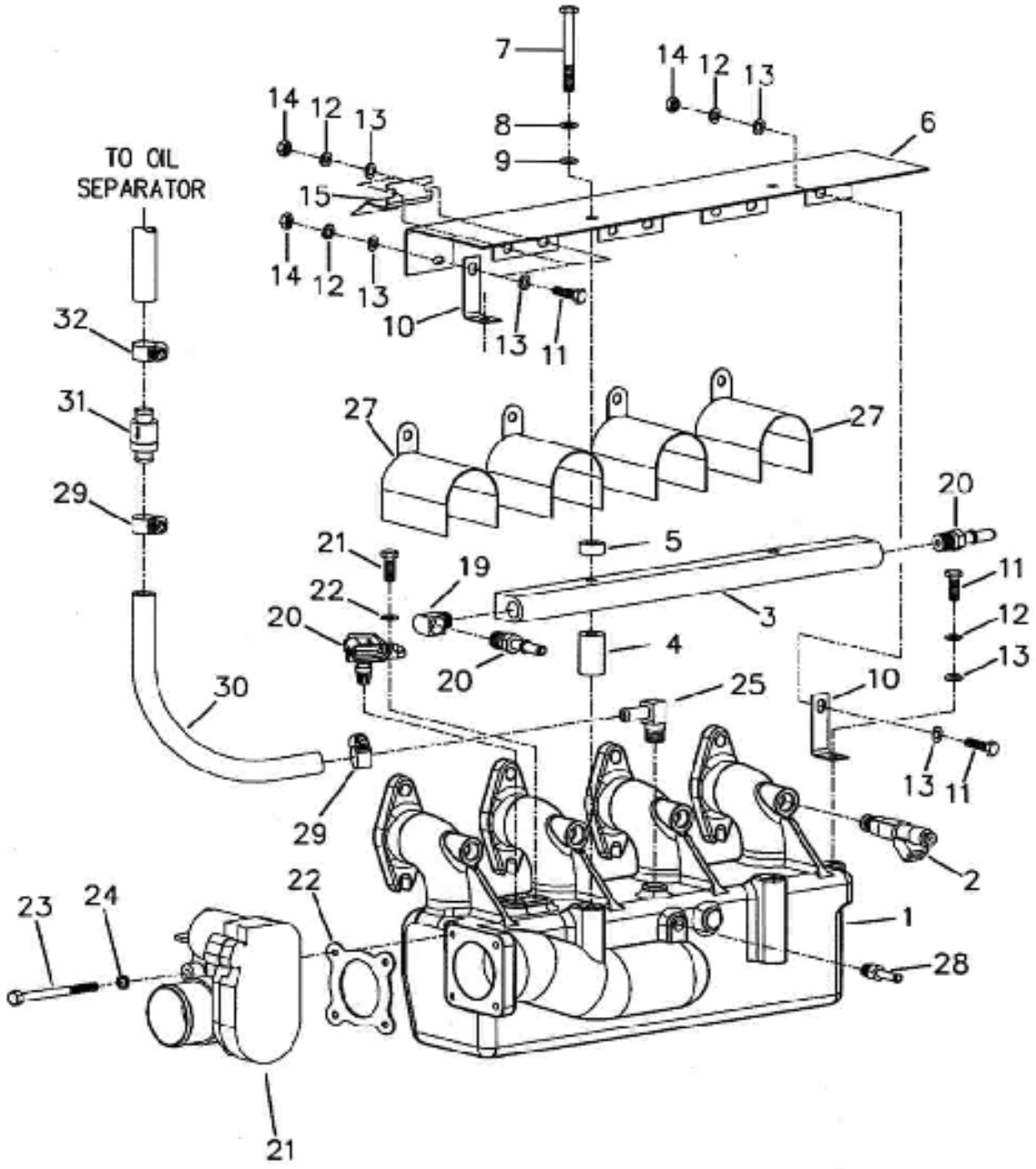


INTAKE MANIFOLD, EFI and HEAT SHIELD
SIDE INLET-LPG ONLY

ITEM	PART NO.	DESCRIPTION	QTY.
—	*TM27F05460	Assembly, EFI, side inlet, LP (includes items 1-23)	1
1	*TM27F00547	Intake manifold, side inlet, plenum	1
2	TM27F00548	Heat shield, plenum	1
3	XM32008	Screw, M6 x 16 long	6
4	XM37000	Washer, M6, lock	6
5	XM36000	Washer, M6, flat	8
6	XM35001	Nut, M6, Hex	2
7	TM27F00235	Sensor, TMAP	1
8	XM36000	Washer, M6, flat	1
9	XM32014	Screw, M6 x 20 long	1
10	TM27F00333	Heat shield, TMAP	1
11	TM27F00550	Mixer, LPG	1
12	TM27F00558	Adapter, throttle valve	1
13	TM27F00246	Gasket, adapter to mixer	1
14	X07876	O-ring, 134, adapter to throttle body	1
15	X07877	Quad ring, 134, adapter to throttle body	2
16	TM27F00545	Throttle body, Bosch, 40 mm	1
17	TM27F00332	Gasket, throttle body	1
18	X22153	Screw, machine, #12-24 x 1 1/2" long	4
19	X00228	Washer, #12, lock	4
20	XM32158	Screw, M6 x 75 long, socket head	4
21	XM37023	Washer, M6, lock, high collar	4
22	X02288	Plug, cup, 1 1/2" dia (not shown)	4
23	RF1560	Elbow, 1/4P x 3/8H	1
24	TM27F00466	Heat shield, injector	4
25	RF1567	Fitting, straight, 1/8P x 3/16H	1
26	X02864	Clamp, hose	2
27	LL207-16	Hose, 1/2" ID x 16" long	1
28	LO230	Valve, PCV	1
29	X02812	Clamp, #10 worm	1

NOTE: * Refer to the "Engine Specification Number" when ordering parts to determine the correct part number.

INTAKE MANIFOLD, EFI and HEAT SHIELD
REAR INLET-GASOLINE

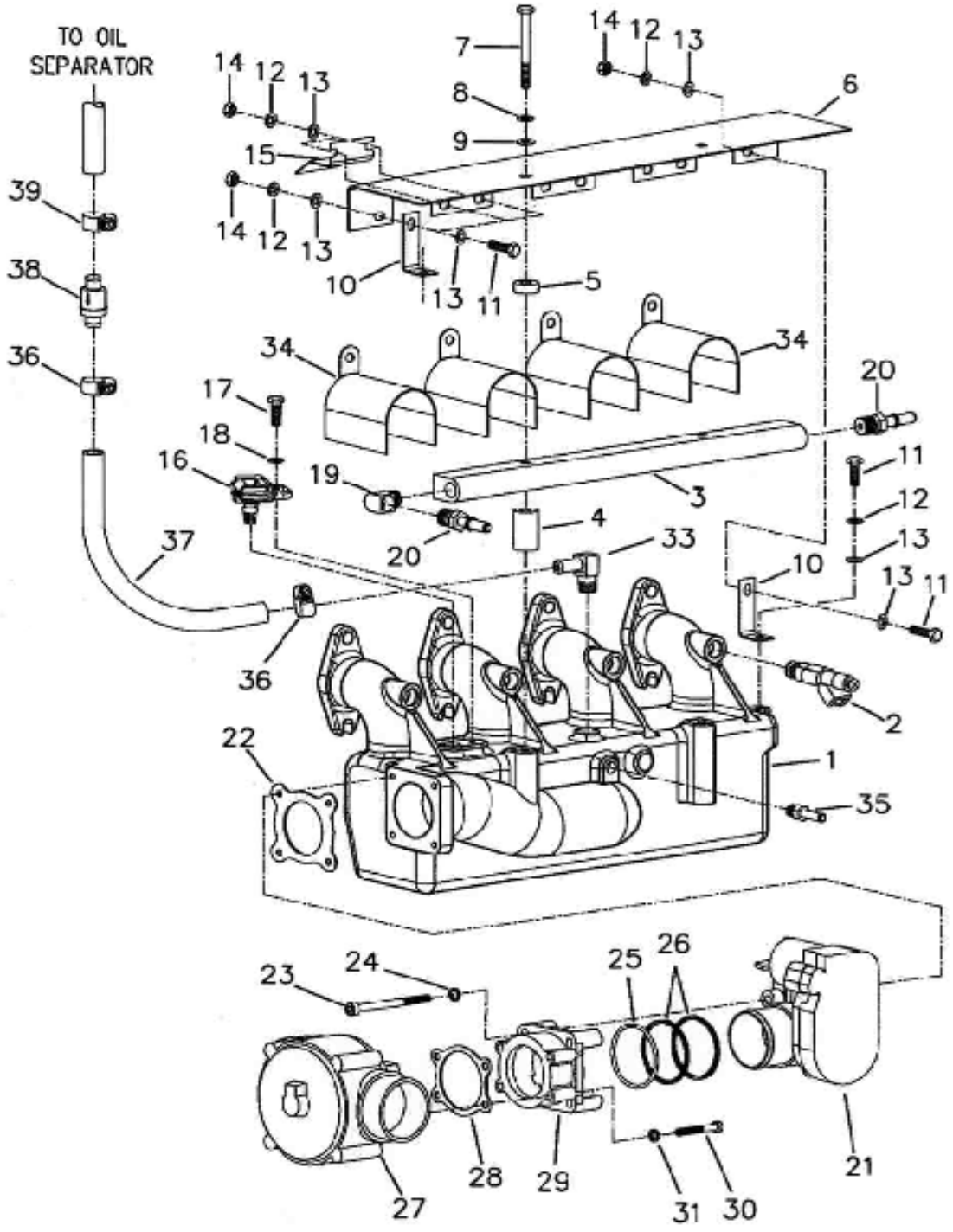


INTAKE MANIFOLD, EFI and HEAT SHIELD
REAR INLET-GASOLINE

ITEM	PART NO.	DESCRIPTION	QTY.
—	[a] TM27F05520	Assembly, EFI, rear inlet, gas (includes items 1-26)	1
1	[a] TM27F00552	Intake manifold, rear inlet, plenum	1
2	TM27F00331	Injector	4
3	TM27F00462	Fuel rail	1
4	TM27F00241	Spacer, fuel rail, bottom	2
5	TM27F00242	Spacer, fuel rail, top	2
6	TM27F00546	Heat shield, fuel rail	1
7	XM32075	Screw, M8 x 80 long	2
8	XM37002	Washer, M8, lock	2
9	X14219	Washer, M8, flat	2
10	TM27F00340	Heat shield, support (front & rear)	2
11	XM32008	Screw, M6 x 16 long	8
12	XM37000	Washer, M6, lock	8
13	XM36000	Washer, M6, flat	10
14	XM35001	Nut, M6, hex	4
15	TM27F00333	Heat shield, TMAP	1
16	TM27F00235	Sensor, TMAP	1
17	XM32014	Screw, M6 x 20 long	1
18	XM36000	Washer, M6, flat	1
19	RF1099	Elbow, 90°, 1/4MP x 1/4FP	1
20	X26227	Fitting, 1/4P x SAE J2044	2
21	TM27F00545	Throttle body, Bosch, 40 mm	1
22	TM27F00332	Gasket, throttle body	1
23	XM32157	Screw, M6 x 50 long	4
24	XM37000	Washer, M6, lock	4
25	RF1560	Elbow, 1/4P x 3/8H	1
26	X02288	Plug, cup, 1 1/2" dia (not shown)	4
27	TM27F00466	Heat shield, injector	4
28	RF1567	Fitting, straight, 1/8P x 3/16H	1
29	X02864	Clamp, hose	2
30	LL207-16	Hose, 1/2" ID x 16" long	1
31	LO230	Valve, PCV	1
32	X02812	Clamp, #10 worm	1

NOTE: • Refer to the "Engine Specification Number" when ordering parts to determine the correct part number.

INTAKE MANIFOLD, EFI and HEAT SHIELD
REAR INLET-DUAL FUEL

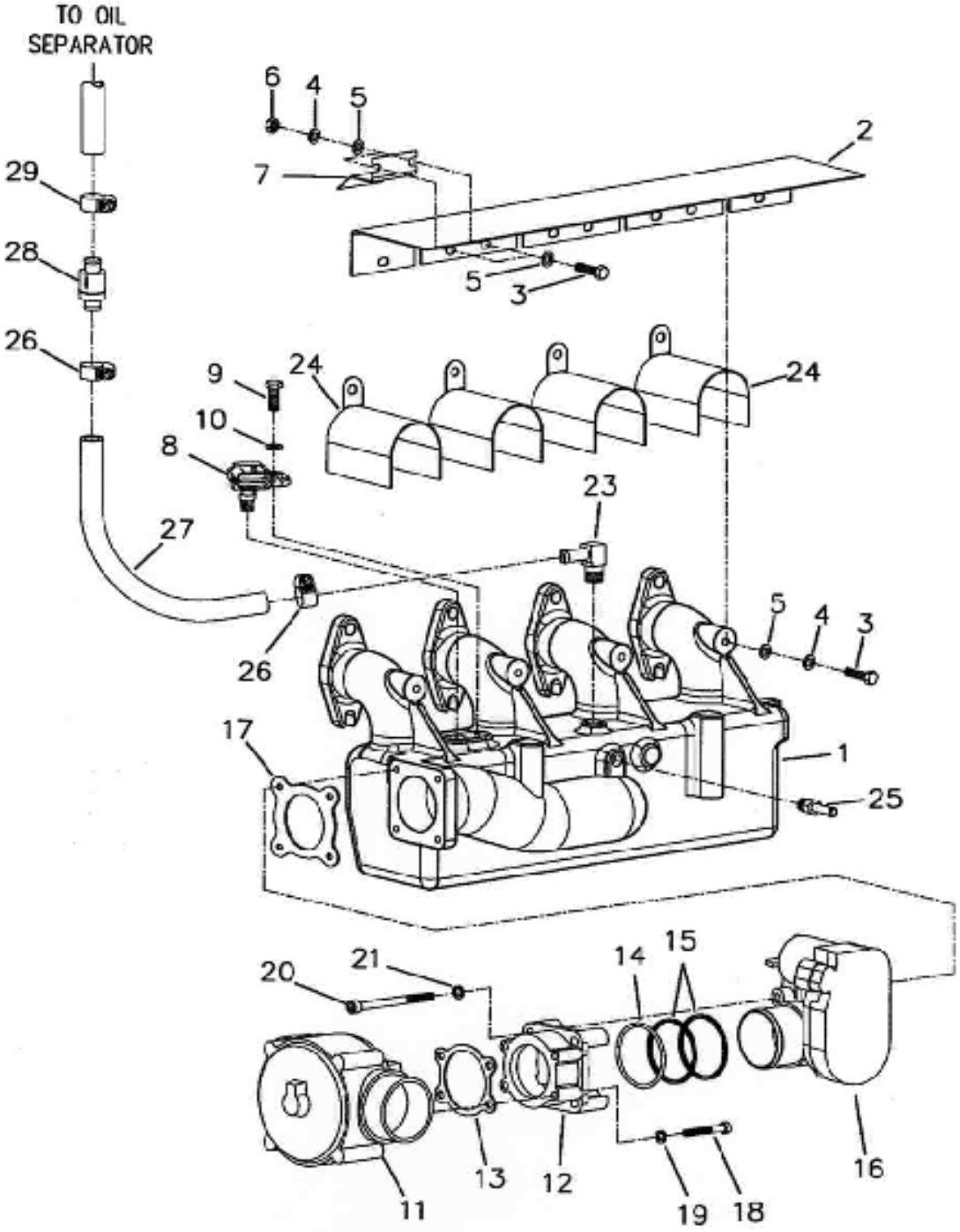


INTAKE MANIFOLD, EFI and HEAT SHIELD
REAR INLET-DUAL FUEL

ITEM	PART NO.	DESCRIPTION	QTY.
—	* TM27F05530	Assembly, EFI, rear inlet, dual fuel (includes items 1-33)	1
1	* TM27F00552	Intake manifold, rear inlet, plenum	1
2	TM27F00331	Injector	4
3	TM27F00462	Fuel rail	1
4	TM27F00241	Spacer, fuel rail, bottom	2
5	TM27F00242	Spacer, fuel rail, top	2
6	TM27F00546	Heat shield, fuel rail	1
7	XM32075	Screw, M8 x 80 long	2
8	XM37002	Washer, M8, lock	2
9	X14219	Washer, M8, flat	2
10	TM27F00340	Heat shield, support (front & rear)	2
11	XM32008	Screw, M6 x 16 long	6
12	XM37000	Washer, M6, lock	6
13	XM36000	Washer, M6, flat	10
14	XM35001	Nut, M6, hex	4
15	TM27F00333	Heat shield, TMAP	1
16	TM27F00235	Sensor, TMAP	1
17	XM32014	Screw, M6 x 20 long	1
18	XM36000	Washer, M6, flat	1
19	RF1099	Elbow, 90°, 1/4MP x 1/4FP	1
20	X26227	Fitting, 1/4P x SAE J2044	2
21	TM27F00545	Throttle body, Bosch, 40 mm	1
22	TM27F00332	Gasket, throttle body	1
23	XM32158	Screw, M6 x 75 long, socket head	4
24	XM37023	Washer, M6, lock, high collar	4
25	X07876	O-ring, 134, adapter to throttle body	1
26	X07877	Quad ring, 134, adapter to throttle body	2
27	TM27F00550	Mixer, LPG	1
28	TM27F00246	Gasket, adapter to mixer	1
29	TM27F00558	Adapter, throttle valve	1
30	X22153	Screw, machine, #12-24 x 1 1/2" long	4
31	X00228	Washer, #12, lock	4
32	X02288	Plug, cup, 1 1/2" dia (not shown)	4
33	RF1560	Elbow, 1/4P x 3/8H	1
34	TM27F00466	Heat shield, injector	4
35	RF1567	Fitting, straight, 1/8P x 3/16H	1
36	X02864	Clamp, hose	2
37	LL207-16	Hose, 1/2" ID x 16" long	1
38	LO230	Valve, PCV	1
39	X02812	Clamp, #10 worm	1

NOTE: * Refer to the "Engine Specification Number" when ordering parts to determine the correct part number.

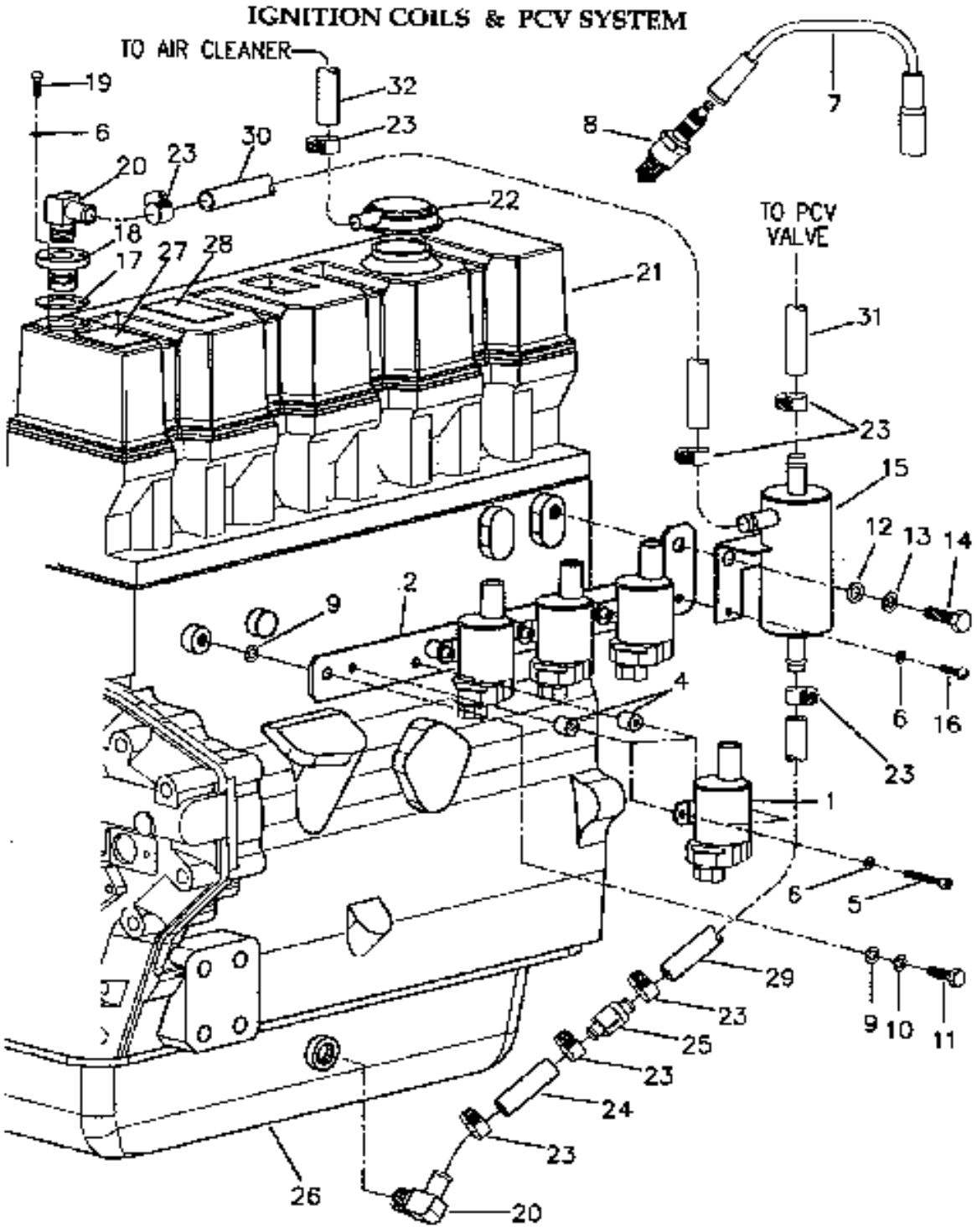
INTAKE MANIFOLD, EFI and HEAT SHIELD
REAR INLET-LPG ONLY



INTAKE MANIFOLD, EFI and HEAT SHIELD
REAR INLET-LPG ONLY

ITEM	PART NO.	DESCRIPTION	QTY.
—	▲ TM27F05540	Assembly, EFI, rear inlet, LP (includes items 1-23)	1
1	▲ TM27F00554	Intake manifold, rear inlet, LP, plenum	1
2	TM27F00548	Heat shield, plenum	1
3	XM32008	Screw, M6 x 16 long	6
4	XM37000	Washer, M6, lock	6
5	XM36000	Washer, M6, flat	8
6	XM35001	Nut, M6, Hex	2
7	TM27F00333	Heat shield, TMAP	1
8	TM27F00235	Sensor, TMAP	1
9	XM32014	Screw, M6 x 20 long	1
10	XM36000	Washer, M6, flat	1
11	TM27F00550	Mixer, LPG	1
12	TM27F00558	Adapter, throttle valve	1
13	TM27F00246	Gasket, adapter to mixer	1
14	X07876	O-ring, 134, adapter to throttle body	1
15	X07877	Quad ring, 134, adapter to throttle body	2
16	TM27F00545	Throttle body, Bosch, 40 mm	1
17	TM27F00332	Gasket, throttle body	1
18	X22153	Screw, machine, #12-24 x 1 1/2" long	4
19	X00228	Washer, #12, lock	4
20	XM32158	Screw, M6 x 75 long, socket head	4
21	XM37023	Washer, M6, lock, high collar	4
22	X02288	Plug, cap, 1 1/2" dia (not shown)	4
23	RF1560	Elbow, 1/4P x 3/8H	1
24	TM27F00466	Heat shield, injector	4
25	RF1567	Fitting, straight, 1/8P x 3/16H	1
26	X02864	Clamp, hose	2
27	LL207-16	Hose, 1/2" ID x 16" long	1
28	LO230	Valve, PCV	1
29	X02812	Clamp, #10 worm	1

NOTE: ▲ Refer to the "Engine Specification Number" when ordering parts to determine the correct part number.


IGNITION COILS & PCV SYSTEM
TO AIR CLEANER
TO PCV VALVE
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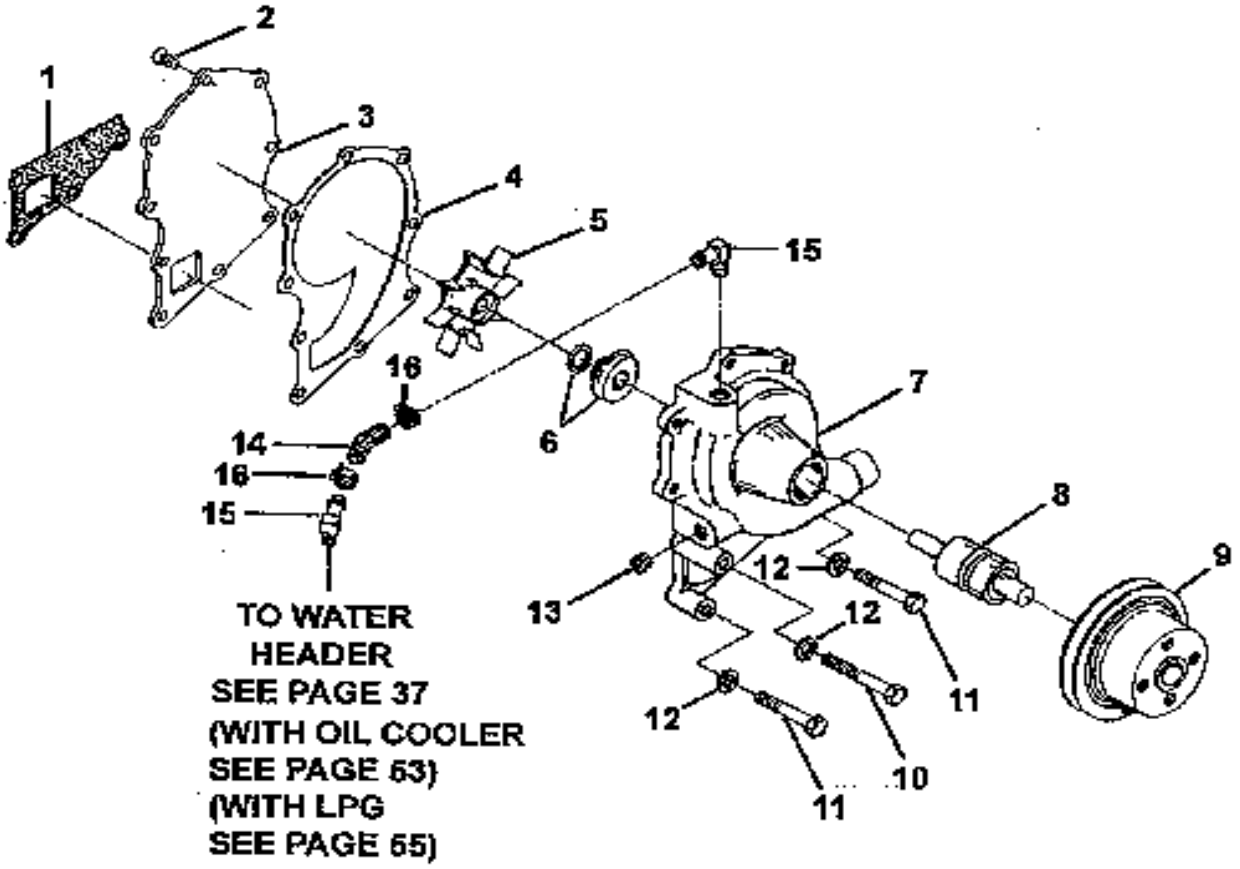
IGNITION COILS & PCV SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
—	TM27M05010	Assembly-Ignition coils (includes items 1-6)	1
1	TM27M00414	Coil, ignition	4
2	TM27M00521	Bracket, coil mounting	1
3	TM27M00245	Clinch nut-#10-32 (not shown)	9
4	TM27M00244	Spacer-.20"ID x .50"OD x .47 "long	8
5	XB106	Screw, SHCS, #10-32 x 1" long	8
6	PE14	Washer, #10, lock	12
7	TM27M00325	Spark plug wire	4
8	TM27M00322	Spark plug	4
9	X14219	Washer, flat, .344 ID	2
10	XM37002	Washer, M8, lock	1
11	XM32028	Screw, M8 x 20 long	1
12	X14141	Washer, flat, .406 ID	1
13	XM37001	Washer, M10, lock	1
14	XM32052	Screw, M10 x 20 long	1
15	TM27L05260	Oil separator	1
16	XA8	Screw, #10-32 x 1/2" long	1
17	TM27B00427	Gasket, PCV fitting	1
18	TM27B00428	Fitting, PCV to valve cover	3
19	XA9	Screw, #10-32 x 5/8" long	3
20	X26228	Elbow, 1/2" H x 3/8" P	2
21	TM27A00623	Valve cover	1
22	TM27L00412	Cap, oil filler	1
23	X02812	Clamp, hose #10	9
24	LL202-9	Hose, 1/2" ID x 9" long	1
25	TM27L00214	Check valve	1
26	TM27L00525	Oil pan with PCV connection (see item 25 page 4)	1
27	X06226	Label - WARNING ROTATING FAN	1
28	* ——————	Label - EMISSIONS	1
29	LL202-6	Hose, 1/2" ID x 6" long	1
30	LL202-20	Hose, 1/2" ID x 20" long	1
31	LL202-7	Hose, 1/2" ID x 7" long	1
32	LL202-18	Hose, 1/2" ID x 18" long	1

NOTE: * Not serviced separately.

WATER PUMP ASSEMBLY

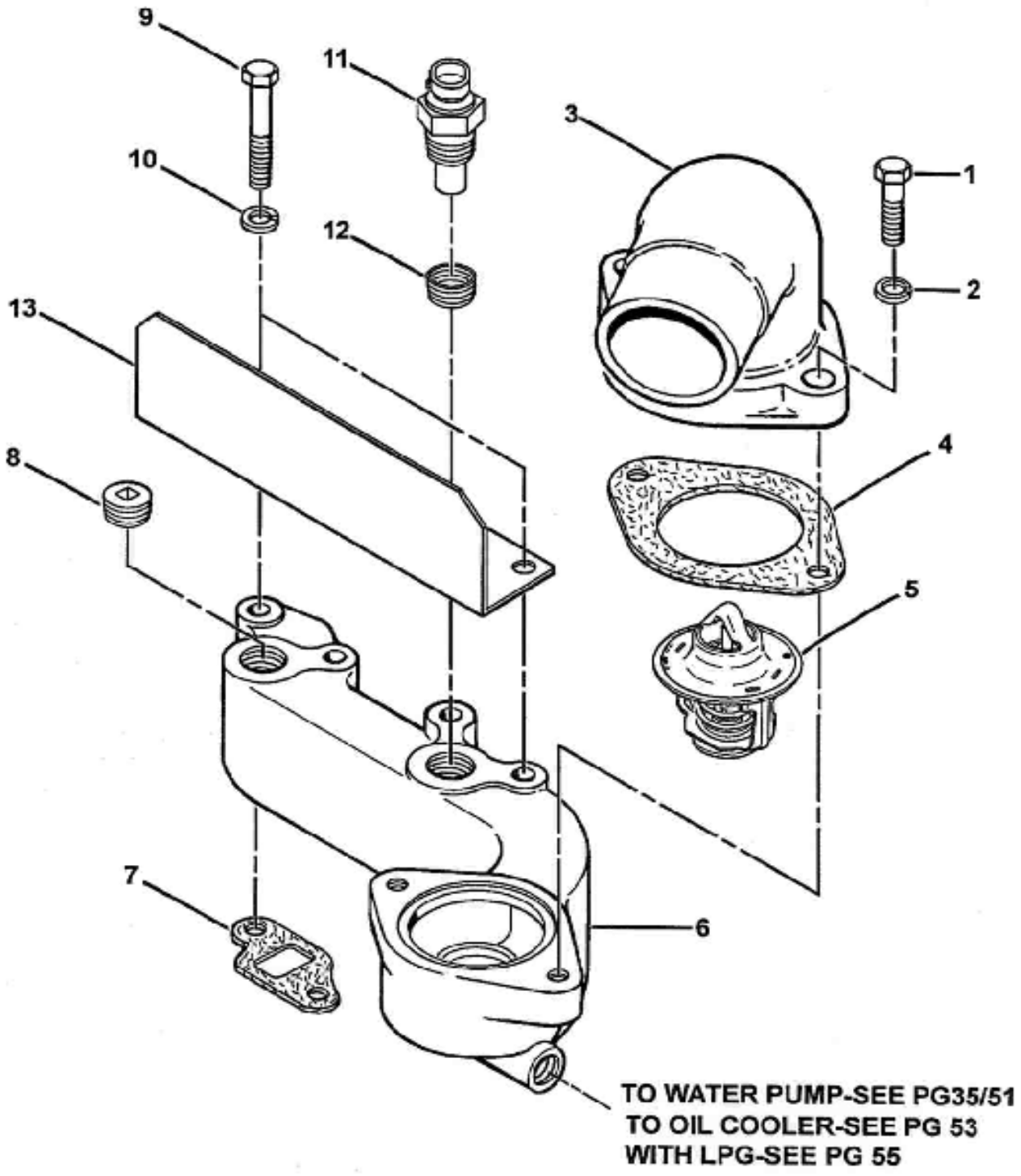


WATER PUMP ASSEMBLY
12 5/8" HI

ITEM	PART NO.	DESCRIPTION	QTY.
—	TM27K06103	Pump assembly, water, complete (includes items 1-9 & 13)	1
—	TM27K06105	Pump assembly, water, for service, no pulley (includes items 1-8 & 13)	1
1	[a]TM27K00301	Gasket, water pump to crankcase	1
2	XM32012	Screw, back plate to crankcase	6
3	[b]TM27K00405	Plate, water pump back	1
4	[b]TM27K00403	Gasket, water pump back plate	1
5	[b]TM27K00428	Impeller, water pump	1
6	[b]TM27K00327	Seal, water pump	1
7	[b]TM27K00610	Body, water pump	1
8	[b]TMK00328	Shaft and bearing assembly	1
9	[c]TM27K00406	Pulley, 1/2" groove, 172.0mm nom. dia.	1
10	XM32108	Screw, M10 x 85 long	1
11	XM32011	Screw, M10 x 55 long	2
12	XM37001	Washer, M10, lock	3
13	26XX26166	Plug, 3/8 NPT, hxhd	1
14	TM27K00309	Hose, 5/8 ID	1
15	26XX26176	Elbow, 5/8H x 3/8P	2
16	X02812	Clamp, hose, water by-pass	2

NOTE:
- [a] Included in Front End Gasket Set TM27U02004.
- [b] Not Serviced Separately.
- [c] Water Pump Pulley Installation Instructions, form X30078, packaged with Service Pump and must be followed when assembling pulley to pump.

WATER HEADER and THERMOSTAT



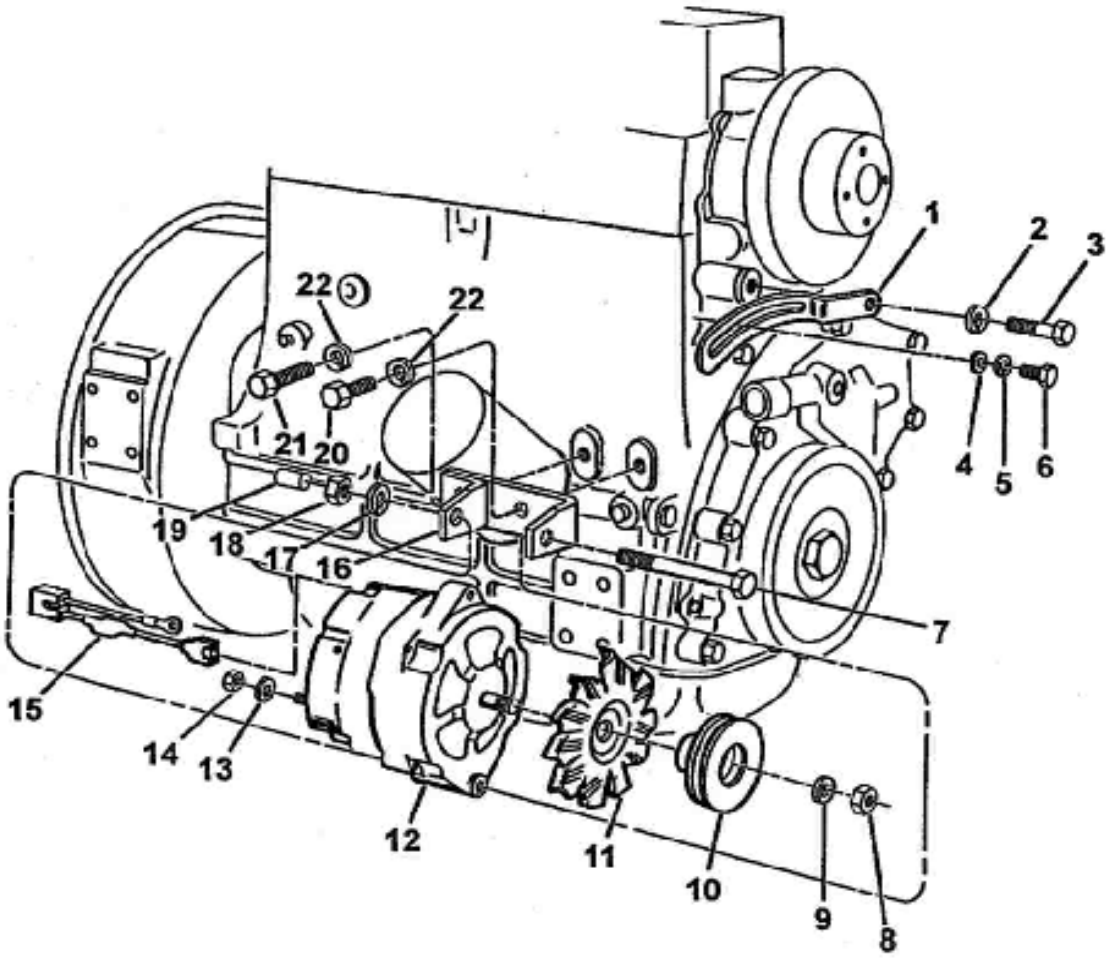
WATER HEADER and THERMOSTAT

ITEM	PART NO.	DESCRIPTION	QTY.
1	XM32039	Screw, M8 x 30 long, water outlet elbow to header	2
2	XM37002	Washer, M8, lock	2
3	[c]TMD27K00304	Elbow, water outlet	1
4	[a]X07854	Gasket, water outlet elbow	1
5	TM27K00429	Thermostat	1
6	TM27K00503	Header, water outlet	1
7	[a]TM27K00202	Gasket, water outlet header	2
8	26XX00101B	Plug, 1/2" NPT, csk	1
9	XM32038	Screw, M8 x 70, water header to cylinder head	4
10	XM37002	Washer, M8, lock	4
11	TM27M00246	Sensor, engine temperature	1
12	X12253	Bushing, reducer 1/2" to 3/8" NPT	1
13	TM27F00467	Heat shield, ECT sensor	1
14	[b]X05695	Conditioner, coolant (not shown)	2

NOTE: [a] Included in Top End Gasket Set TMD27U01007.
[b] Replenish anytime cooling system is serviced. REF: SPB #90-409
[c] Refer to the "Engine Specification Number" when ordering parts to determine the correct part number.

ALTERNATOR

with 12 5/8" HI WATER PUMP

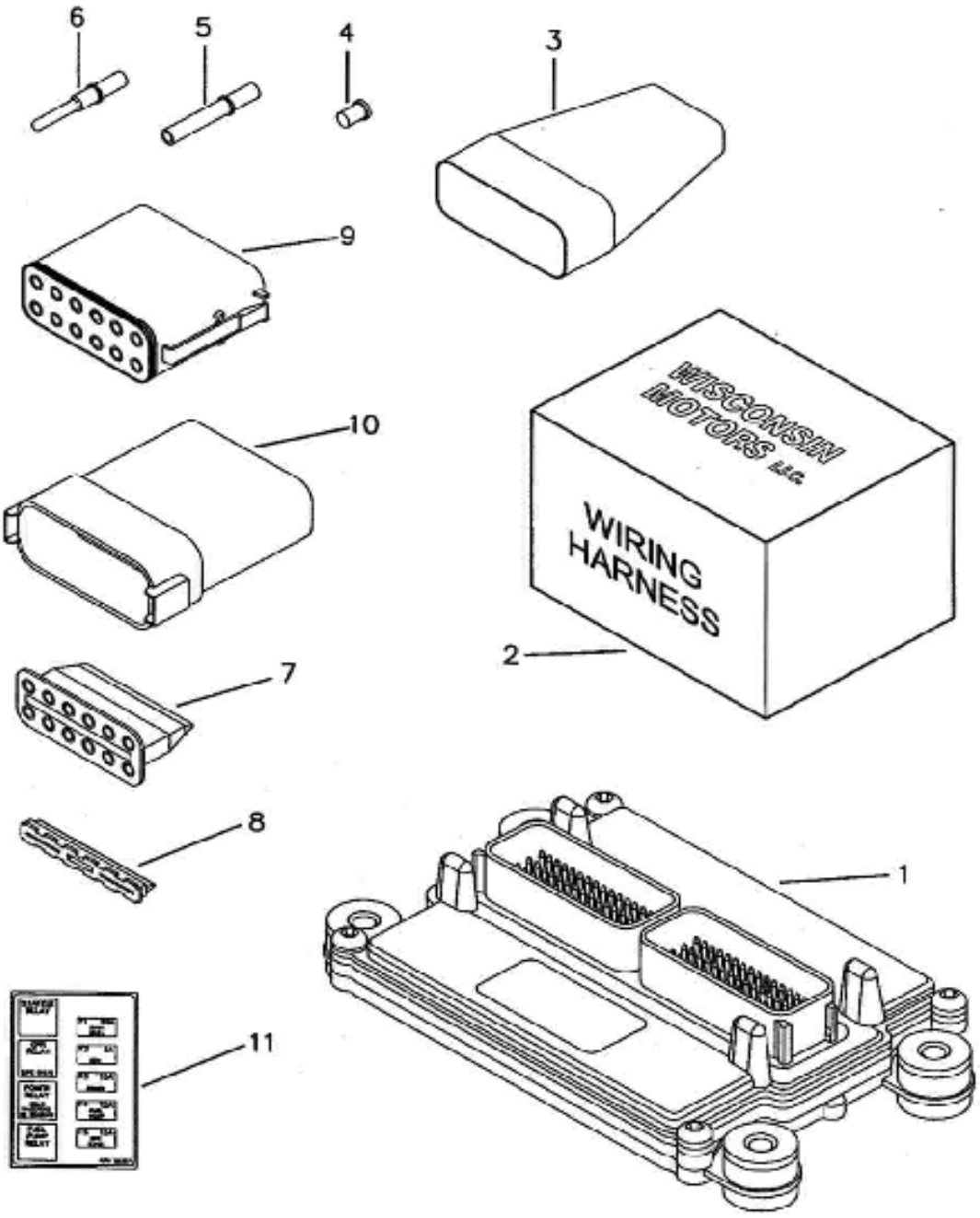


ALTERNATOR
with 12 5/8" HI WATER PUMP

ITEM	PART NO.	DESCRIPTION	QTY.
1	TM27M00301	Strap, alternator adjusting	1
2	XM37001	Washer, M10, lock (see item 12, page 35)	1
3	XM32108	Screw, M10 x 85 long (see item 10, page 35)	1
4	X14141	Washer, flat, .406 ID	1
5	XM37002	Washer, M8, lock	1
6	XM32039	Screw, M8 x 30 long	1
7	XM32007	Screw, M10 x 110 long	1
8	———	Nut, pulley & fan to alternator (part of alt.)	1
9	———	Washer, pulley & fan to alternator (part of alt.)	1
10	F600M00379	Pulley, alternator	1
11	HD27M00407	Fan, alternator pulley	1
12	*10120182	Alternator assembly (includes items 8-11 & 13-15)	1
13	13XXM37013	Washer, M6, IT, lock	1
14	13XXM35001	Nut, M6	1
15	10120162	Harness, alternator	1
16	TM27M00411	Bracket, alternator	1
17	XM37001	Washer, M10, lock	1
18	15XXM35000	Nut, M10	1
19	10270042	Cap-sleeve 3/8" (for threaded end of alternator bolt)	1
20	XM32045	Screw, M12 x 25 long	1
21	XM32046	Screw, M12 x 30 long	1
22	XM37008	Washer, M12, lock	2
———	X06163	Decal, alternator (not shown)	1
———	X27019504	Belt, alternator/water pump (not shown)	1

NOTE: * Alternator components are <u>not</u> serviced separately.

ECM and HARNESS

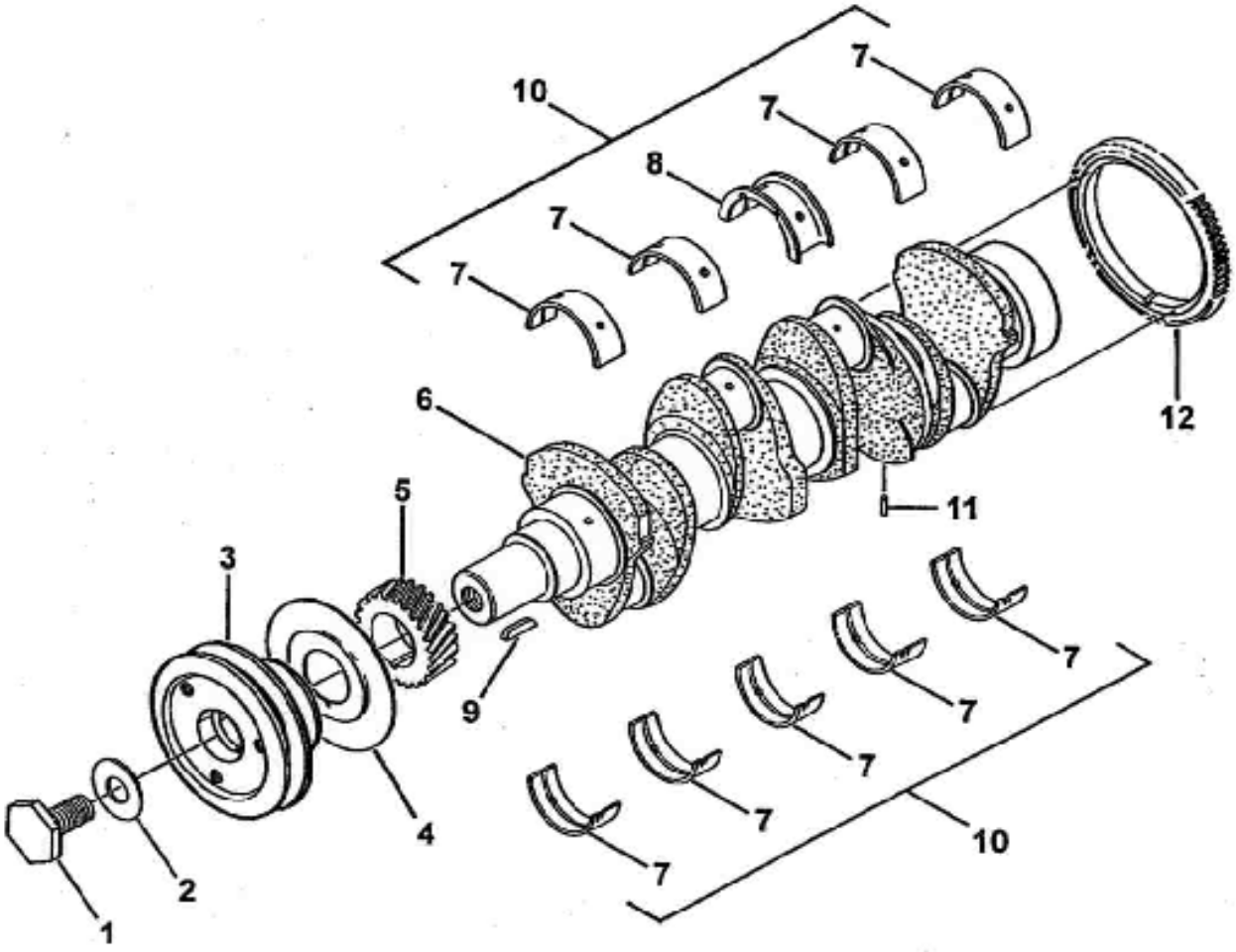


ECM and WIRING HARNESS

ITEM	PART NO.	DESCRIPTION	QTY.
1	[2]TM27M00522	ECM (for specification no's TME27 00284PT, 285PT, 290PT & 294PT)	1
	[4]TM27M00523	ECM (for specification no's TME27 00295PT & 295)	1
	[8]TM27M00524	ECM (for specification no's TME27 00289PT, 297PT & 297)	1
	[6]TM27M00525	ECM (for specification no's TME27 00292PT)	1
	[3]TM27M00527	ECM (for specification no's TME27 00286PT)	1
	[5]TM27M00529	ECM (for specification no's TME27 00296PT & 296)	1
	[1]TM27M00530	ECM (for specification no's TME27 00291PT)	1
	[7]TM27M00531	ECM (for specification no's TME27 00293PT)	1
2	[*]10120179	Wiring harness	1
3	20120084	Boot	2
4	20120083	Seal plug	12
5	20120082	Socket	12
6	20120081	Pin	12
7	20120080	Lock	1
8	20120079	Lock	1
9	20120078	Plug	1
10	20120077	Receptacle	1
11	SD367	Label-Fuse and Relay Box	1

NOTE: [*] Refer to the "Engine Specification Number" when ordering parts to determine the correct part number.

BALANCER CRANKSHAFT and PULLEY

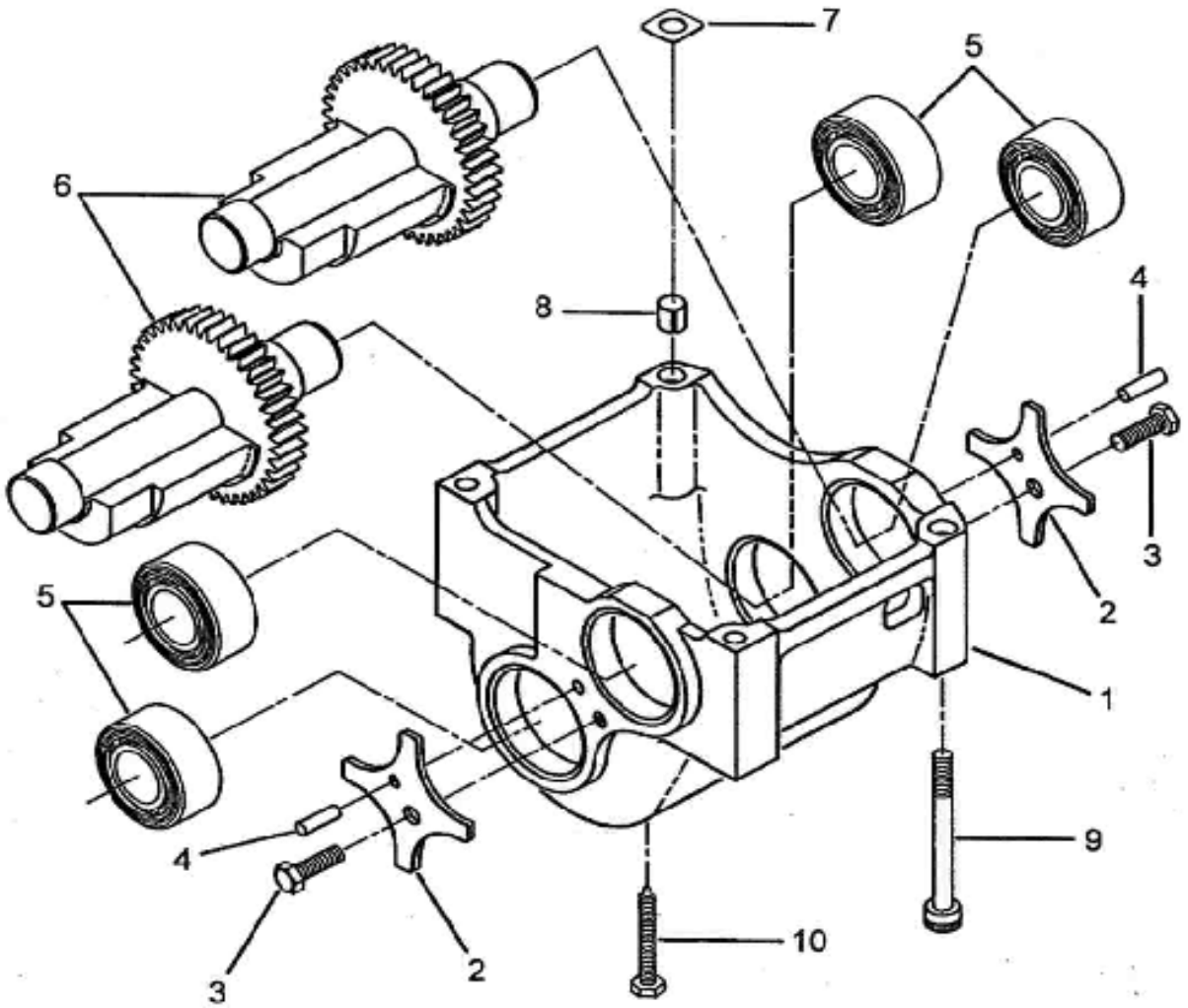


BALANCER CRANKSHAFT and PULLEY

ITEM	PART NO.	DESCRIPTION	QTY.
1	XM32064	Screw, M16 x 35 long-36mm head	1
2	XM37014	Washer, flat, crankshaft pulley to crankshaft	1
3	TM27C00401	Pulley, crankshaft (w/ PTO machining)	1
4	TM27C00408	Slinger, oil	1
5	TM27H00407	Gear, crankshaft, 21°	1
6	TMD27C00612	Balancer crankshaft	1
7	* ——	Main bearing, crankshaft, front, intermediate & rear, upper & lower	9
8	* ——	Main bearing, crankshaft, thrust, center upper	1
9	X00666	Key, crankshaft & pulley to crankshaft	1
10	TM27T00102	Bearing kit, crankshaft (includes items 7 & 8)	1
11	X17203	Pin, roll	1
12	TM27H00507	Gear, balancer drive	1

* Included in item 10.
b Crankshaft Bearing Kits are sreviced in Standard and 0.25mm, 0.50mm, 0.75mm and 1.00mm undersized.

BALANCER ASSEMBLY
TM27B06290

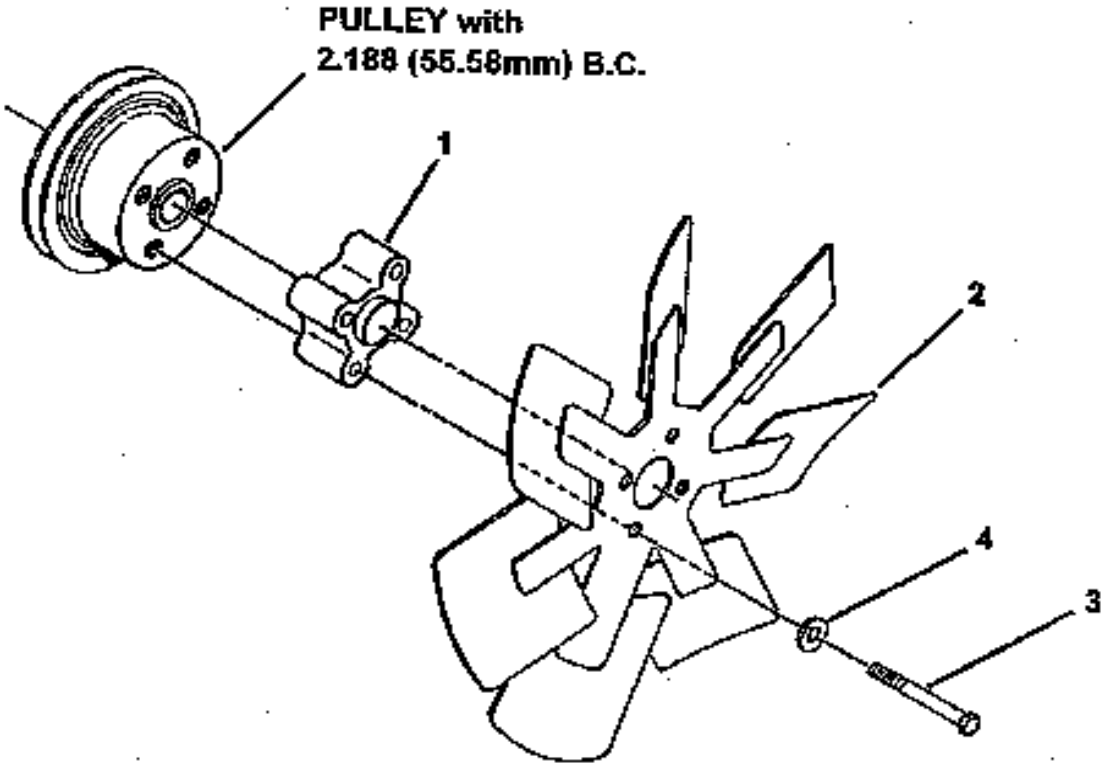


BALANCER ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
—	TM27B06290	Balancer assembly (includes items 1-6)	1
1	TM27B00629	Housing, balancer	1
2	TM27B00320	Lockplate, bearing retainer	2
3	XM32019	Screw, M8 x 16 long	2
4	XM17200	Roll pin, 5.0 x 10 long	2
5	TM27B00314	Bearing, balancer shaft	4
6	TM27B00518	Balancer shaft	2
7	*TM27B00319-005	Shim, .005" thick	5
	*TM27B00319-009	Shim, .009" thick	10
	*TM27B00319-012	Shim, .012" thick	5
8	TM27B00315	Dowel bushing	5
9	XM32131	Screw, SHCS, M8-1.25 x 90 long	4
10	*TM27T00200	Keeper screw	1
11	*TTP10142	Instruction sheet, balancer adjustment	1

* Part of 10151001 Balancer Shim Kit

PUSHER FAN

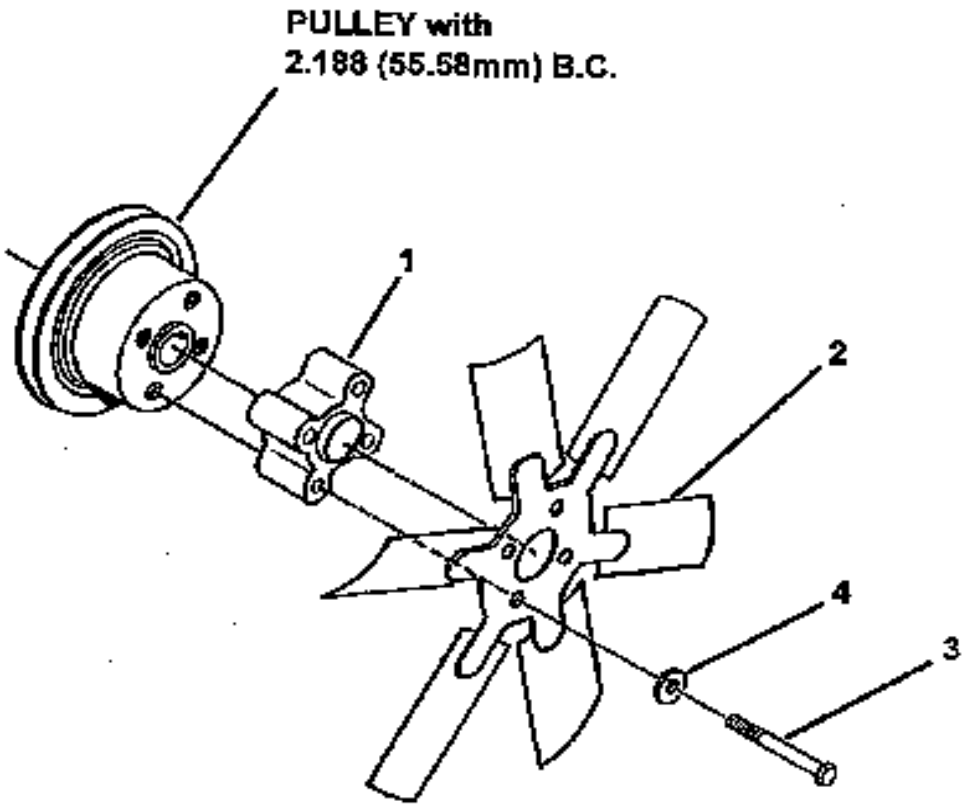


PUSHER FAN

ITEM	PART NO.	DESCRIPTION	QTY.
1	[a]	Fan spacer	1
2	[a]	Pusher fan	1
3	[a]	Screw, M8	4
4	XM37002	Washer, M8, lock	4

NOTE: [a] Depending on the radiator location in your application, please contact your nearest Wisconsin Motors, LLC Distributor with your specification number for the correct fan, correct spacer and correct screw length.

PULLER FAN



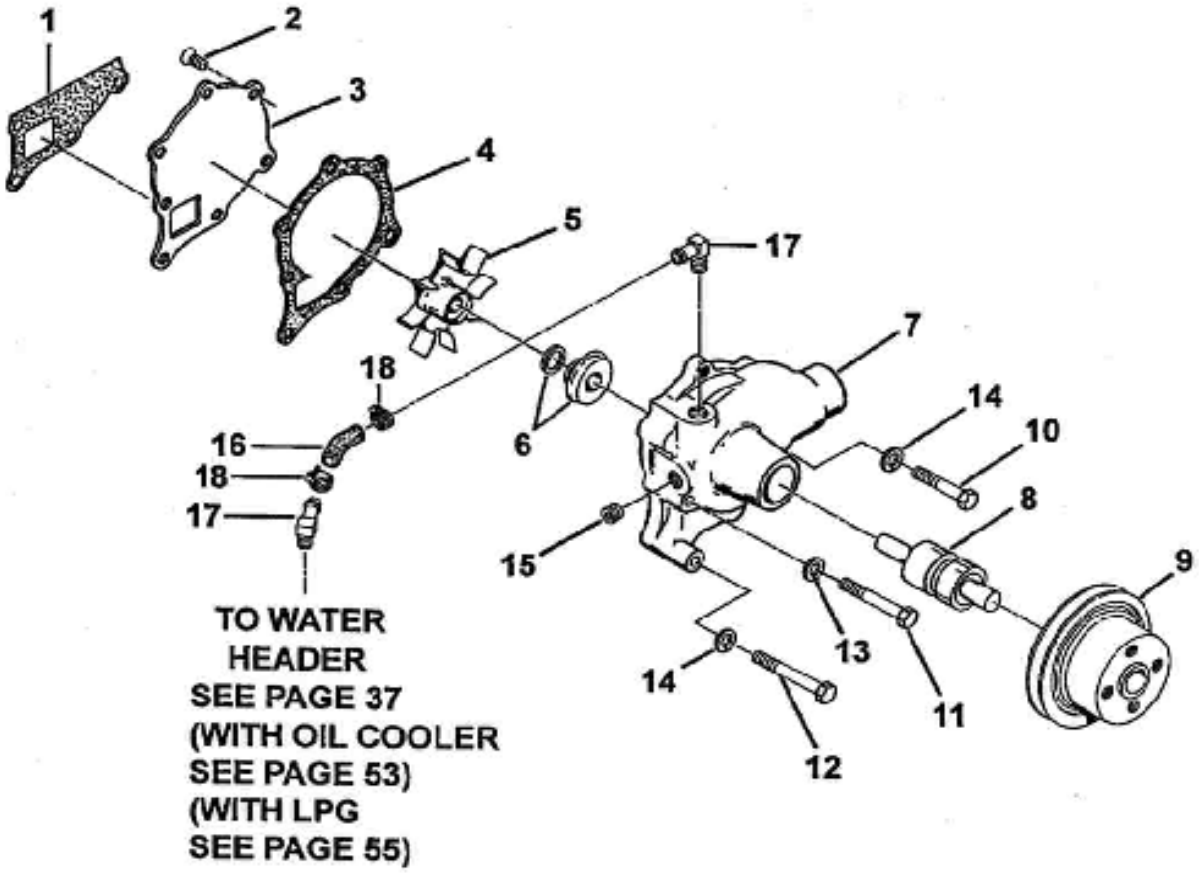
PULLER FAN

ITEM	PART NO.	DESCRIPTION	QTY.
1	*	Fan spacer	1
2	*	Puller fan	1
3	*	Screw, M8	4
4	XM37002	Washer, M8, lock	4

NOTE: * Depending on the radiator location in your application, please contact your nearest Wisconsin Motors, LLC Distributor with your specification number for the correct fan, correct spacer and correct screw length.

WATER PUMP ASSEMBLY

10″ Hi

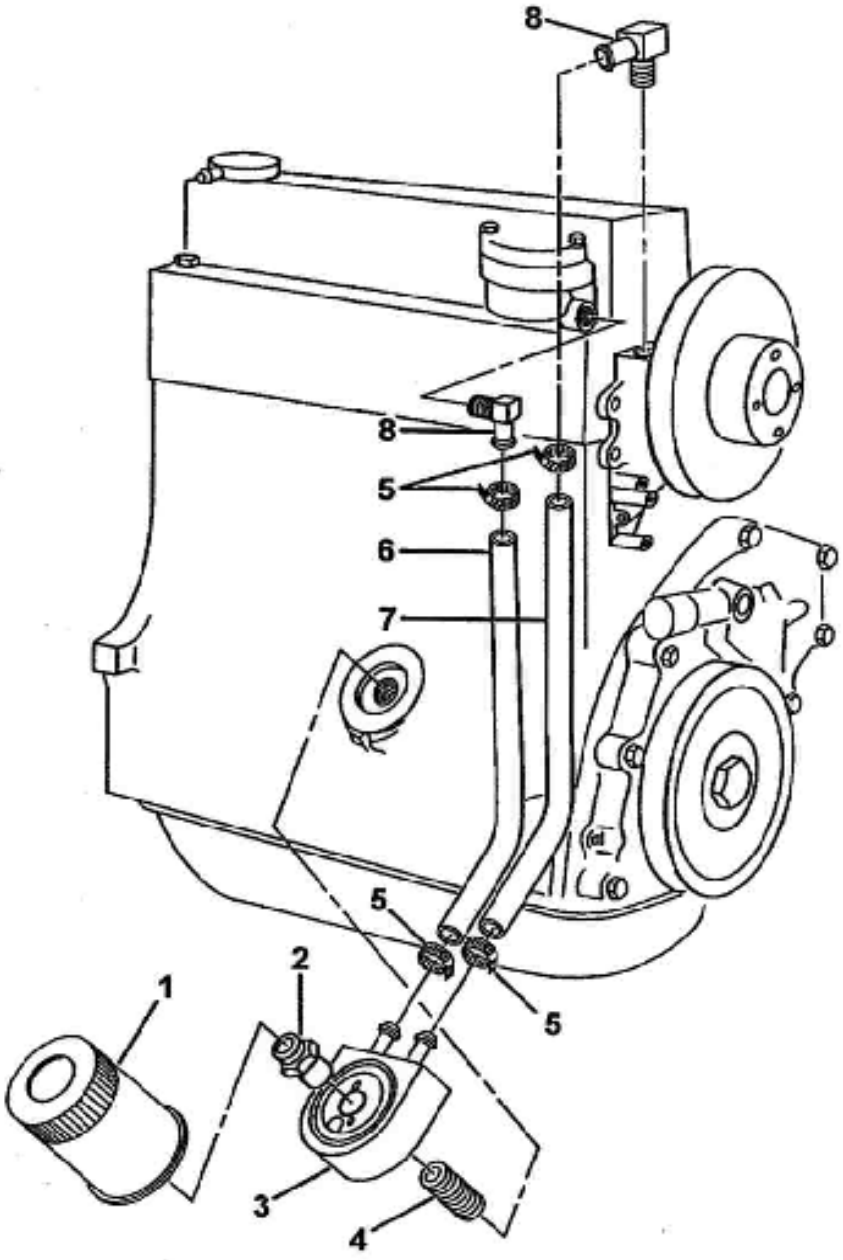


WATER PUMP ASSEMBLY
10" Hi

ITEM	PART NO.	DESCRIPTION	QTY.
–	TM27K06121	Pump assembly, water, complete	1
		(includes items 1-9, 11, 13 & 15)	1
—	TM27K06127	Pump assembly, water, for service, no pulley	1
		(includes items 1-8,11, 13 & 15)	1
1	[a]TM27K00301	Gasket, water pump to crankcase	1
2	XM32012	Screw, back plate to crankcase	4
3	[b]TM27K00415	Plate, water pump back	1
4	[b]TM27K00414	Gasket, water pump back plate	1
5	[b]TM27K00427	Impeller, water pump	1
6	[b]TM27K00327	Seal, water pump	1
7	[b]TM27K00612	Body, water pump	1
8	[b]TMK00328	Shaft and bearing assembly	1
9	[c]TM27K00412	Pulley, 1/2" groove, 143.2mm nom. dia.	1
10	XM32011	Screw, M10 x 85 long	1
11	XM32067	Screw, M10 x 55 long	1
12	XM32027	Screw, M10 x 55 long	1
13	XM37016	Washer, M10, lock	1
14	XM37001	Washer, M10, lock	2
15	26XX26166	Plug, 3/8 NPT, hxhd	1
16	TM27K00309	Hose, 5/8 ID	1
17	26XX26176	Elbow, 5/8H x 3/8P	2
18	X02812	Clamp, hose, water by-pass	2
19	TM27M00308	Strap, alternator adjusting (not shown)	1
20	X14186	Spacer, 13/16" ID x 3/16" thick (not shown)	1

NOTE:
- [a] Included in Front End Gasket Set TM27U02004.
- [b] Not Serviced Separately.
- [c] Water Pump Pulley Installation Instructions, form X30078, packaged with Service Pump and must be followed when assembling pulley to pump.

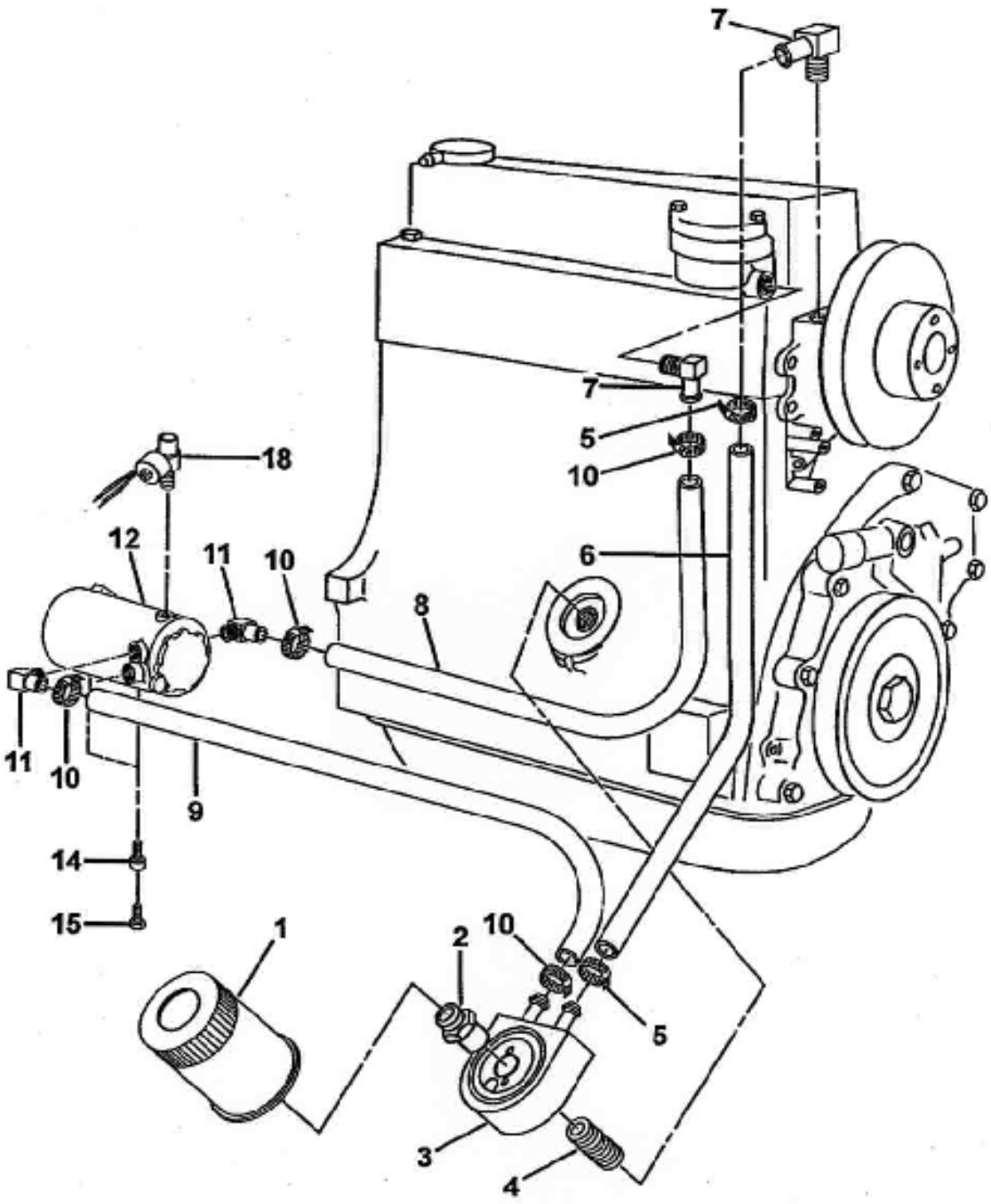
OIL COOLER



OIL COOLER

ITEM	PART NO.	DESCRIPTION	QTY.
1	TM27L00213	Oil filter	1
2	TM27L00204	Connector, oil cooler	1
3	TM27L00522	Cooler, oil	1
4	TM27L00202	Adapter, oil filter	1
5	X02783	Clamp, hose, #12 worm	4
6	X08247190	Hose, 5/8" x 19" long	1
7	X08247230	Hose, 5/8" x 23" long	1
8	26XX26176	Elbow, 5/8H x 3/8P	2

OIL COOLER
with LPG SYSTEMS

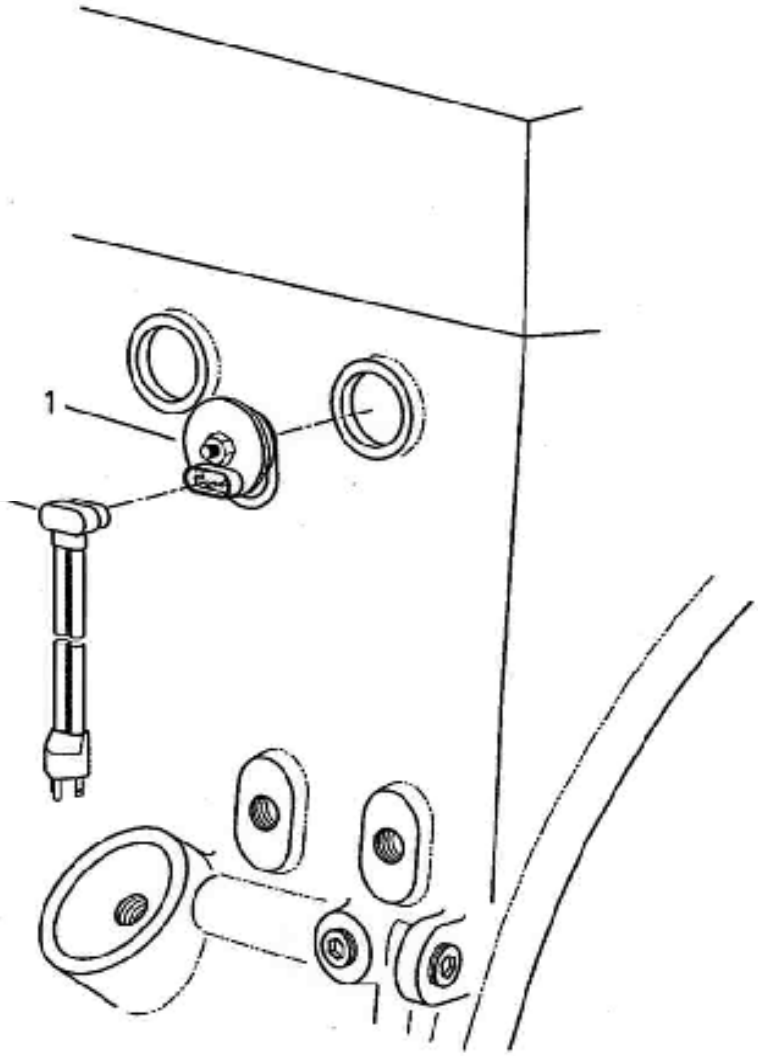


OIL COOLER with LPG

ITEM	PART NO.	DESCRIPTION	QTY.
1	TM27L00213	Oil filter	1
2	TM27L00204	Connector, oil cooler	1
3	TM27L00522	Cooler, oil	1
4	TM27L00202	Adapter, oil filter	1
5	X02783	Clamp, hose, #12 worm	2
6	X08247230	Hose, 5/8" x 23" long	1
7	26XX26176	Elbow, 5/8H x 3/8P	2
8	————	Hose, 5/8" x TBD" long (customer supplied)	1
9	- - - - - -	Hose, 5/8" x TBD" long (customer supplied)	1
10	*X26233	Clamp, hose	4
11	*X26232	Elbow	2
12	TM27F00549	LPG Regulator-EPR (Electronic Pressure Regulator)	1
13	TM27F00245	Kit-EPR Fittings (includes items 10, 11, 16 & 17)	1
14	20200011	Mount, isolator, M8	3
15	—— - - —	M8 mounting screws (customer supplied)	3
16	*X26231	3/4" Straight fuel outlet fitting (not shown)	1
17	*X26234	3/4" Plug, plastic (not shown)	1
18	TM27F00551	Lockoff, fuel, LPG, 12VDC	1

NOTE: * Part of TM27F00245 Installation Kit

BLOCK HEATER
TMD27M03230 ASSEMBLY



BLOCK HEATER

Item	Part Number	Qty	Description
1	AE-OPT-0014	1	ENGINE BLOCK HEARTER

ENGINE GASKET SETS

KIT NUMBER	PART NUMBER	DESCRIPTION	QTY
TMD27U01007-Gasket Set, Top End			
	TMD27A00614	Gasket-Cylinder Head	1
	TM27A00502	Gasket-Cylinder Head Cover	1
	X14596	Washer, .344, Flat	3
	XM3900	O-ring, 8.0 ID	3
	TM27E00503	Gasket-Manifold	1
	TM27K00202	Gasket-Water Outlet Header	2
	X07854	Gasket-Water Outlet	1
	X14192	Gasket-Water Outlet Header	2
	TM27F00332	Gasket-Throttle Body to Manifold	1
	TM27F00206	Gasket-Carburetor	1
	TM27F00308	Gasket-Carburetor-1 1/4" SAE, Spl	1
	F401M00219	Gasket-Distributor	1
	TTP10121	Instruction Sheet-Cyl Hd Torque	1
TM27T00138-Gasket Set, Rear End & Pan			
	TM27B00305	Syringe	1
	X07818	Gasket Material-RTV-Tube	1
	X07840	Insert Curing-RTV	2
	TMD27L00501	Oil Seal-Crankshaft-Rear-1Piece	1
	WM10308	Instruction Sheet-RTV	1
TM27U02004-Gasket Set, Front End			
	TM27B00529	Gasket-Gear Cover	1
	TM27K00301	Gasket-Water Pump	1
	X07845	Oil Seal-Gear Cover	1

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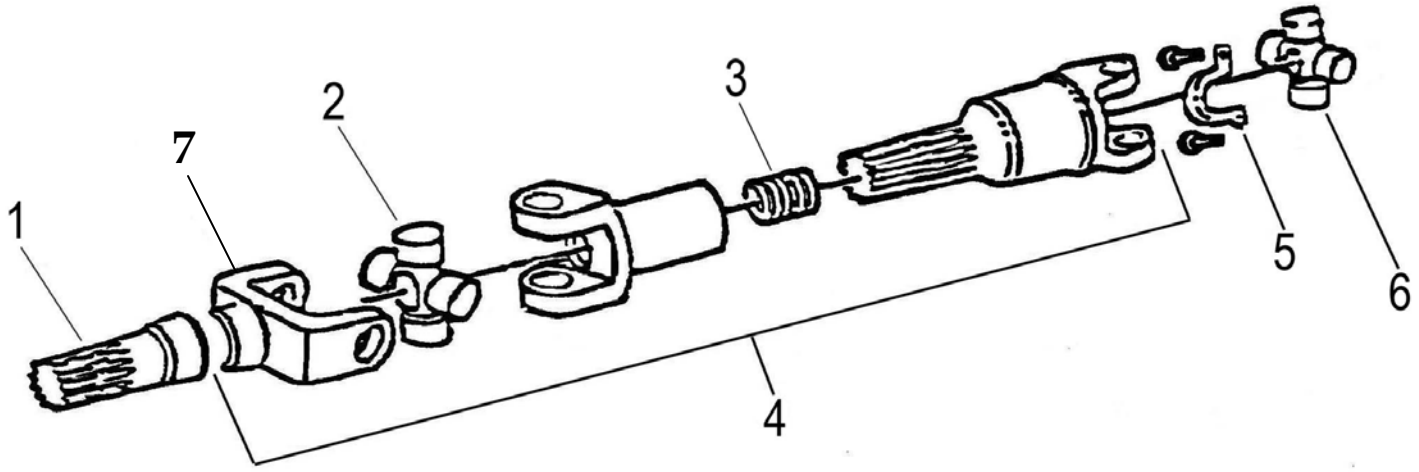
WM10306
Nov 06

DRIVELINE

DRIVE SHAFT ASSEMBLY—FRONT

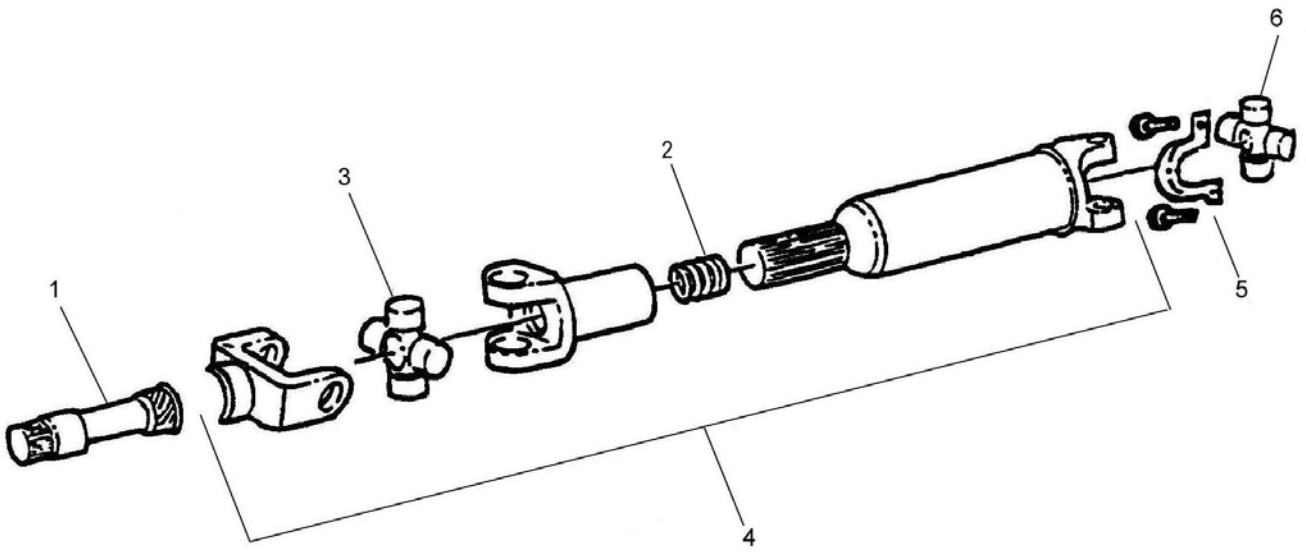


DRIVE SHAFT ASSEMBLY— FRONT DETAIL

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	A-TT8-00201-1	1	TRANSMISSION OUTPUT YOKE SHAFT-FRONT
2	A-TT4-00132-1	1	CROSS BEARING FRONT D/S NEW STYLE
3	A-TT4-00134	1	DRIVE SHAFT SPRING
4	A-TT8-00202-4	1	DRIVE SHAFT
5	A-TT4-00130	2	END YOKE STRAP AND BOLT KIT
6	A-TT4-00137-1	1	CROSS BEARING FRONT D/S NEW STYLE
7	2-4-1921	1	END YOKE

DRIVELINE

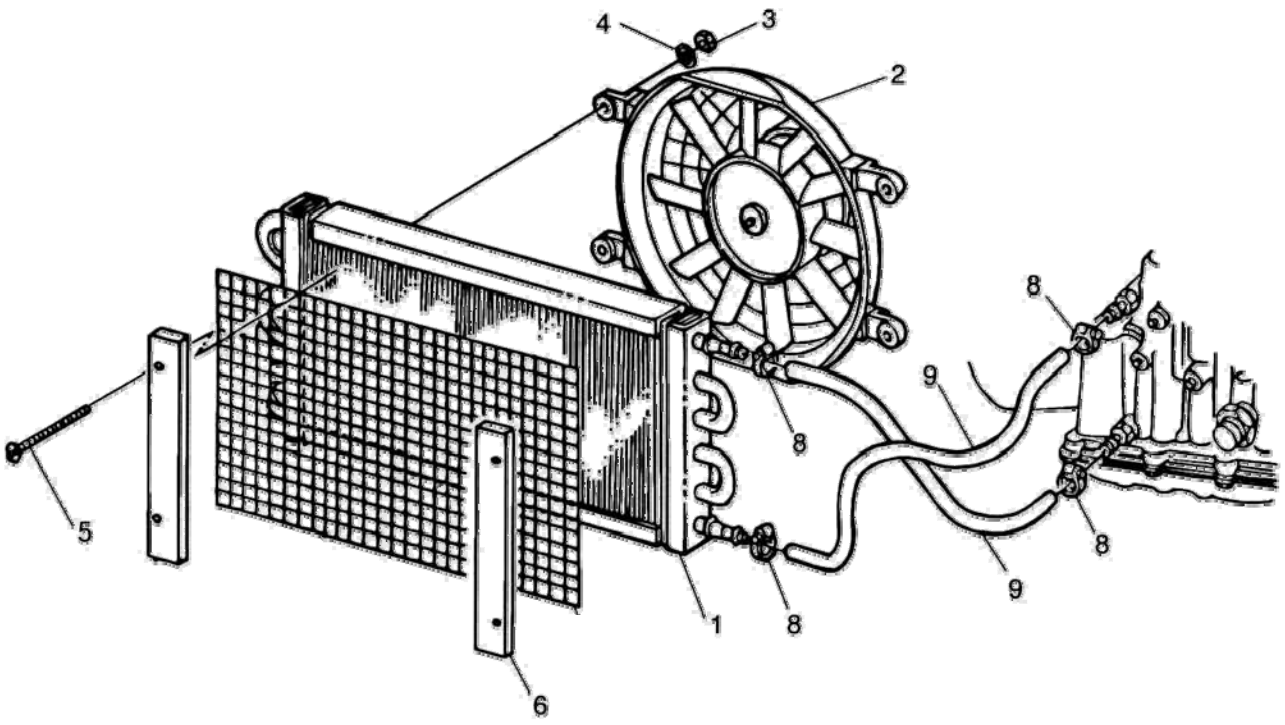
DRIVESHAFT ASSEMBLY—REAR



DRIVE SHAFT ASSEMBLY—REAR DETAIL

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	A-TT8-00201-2	1	TRANSMISSION OUTPUT YOKE SHAFT-REAR
2	A-TT4-00134	1	DRIVE SHAFT SPRING
3	A-TT4-00132-1	1	CROSS BEARING FRONT D/S NEW STYLE
4	AB-TT4-00130-1	1	DRIVE SHAFT
5	A-TT4-00130	2	END YOKE STRAP KIT
6	A-TT4-00137	1	CROSS BEARING REAR D/S NEW STYLE

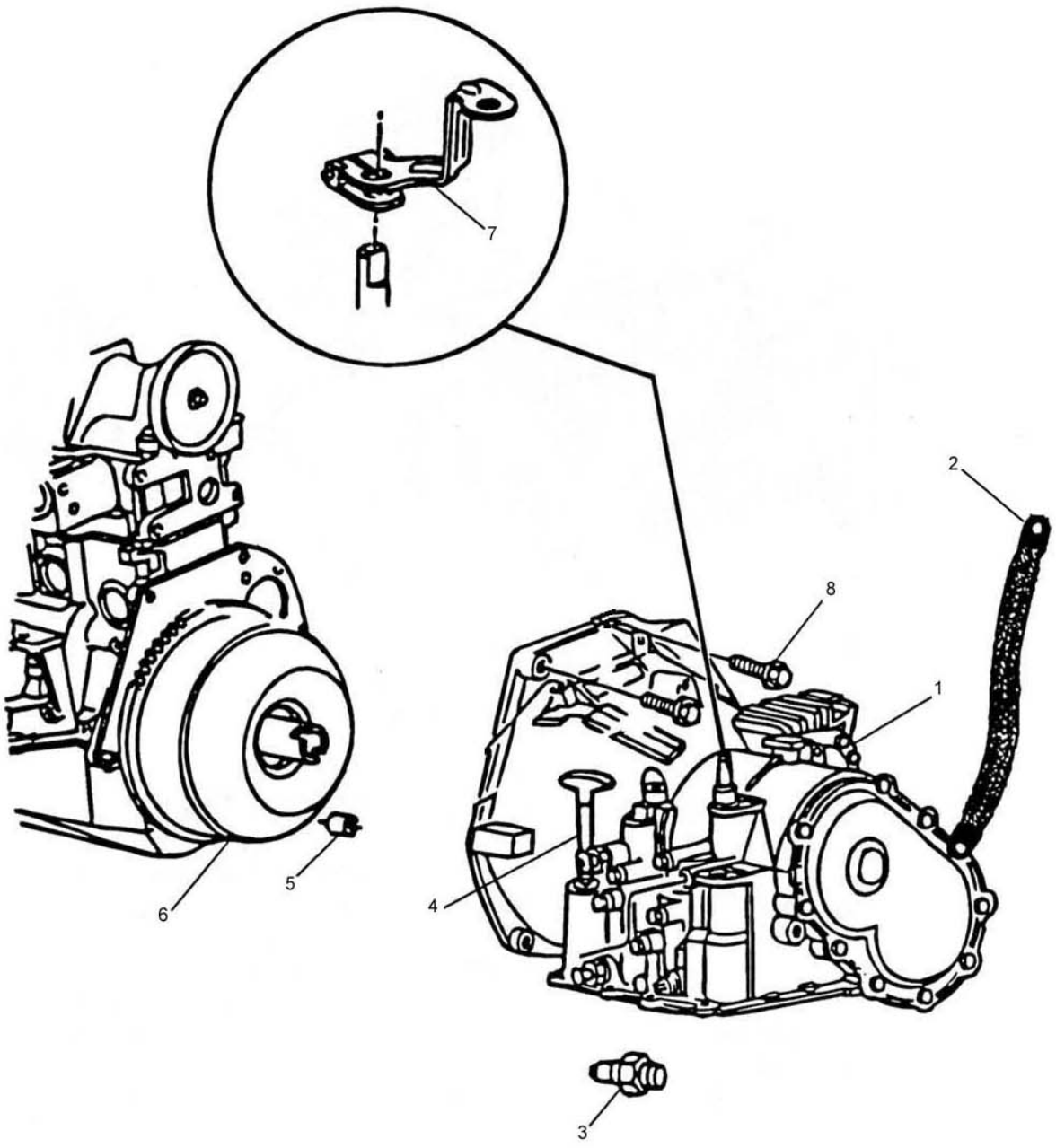
COOLING SYSTEM-TRANSMISSION
AB-TT4-00220-2



ITEM	PART NUMBER	QTY.	DESCRIPTION
1	A-TT4-00221-1	1	COOLER-TRANSMISSION
2	A-TT4-00312-1	1	FAN-ELECTRIC
3		4	NUT - 10-32
4		4	WASHER #10
5		4	SCREW-HEX CAP - 10-32 X 2
6	A-TT4-00224	2	BRACKET-FAN MOUNTING
8	A-TT4-00205	4	CLAMP-HOSE
9		2	HOSE-3/8 I.D. CUT TO LENGTH

NOTES

TRANSAXLE MOUNTING & MISC. PARTS



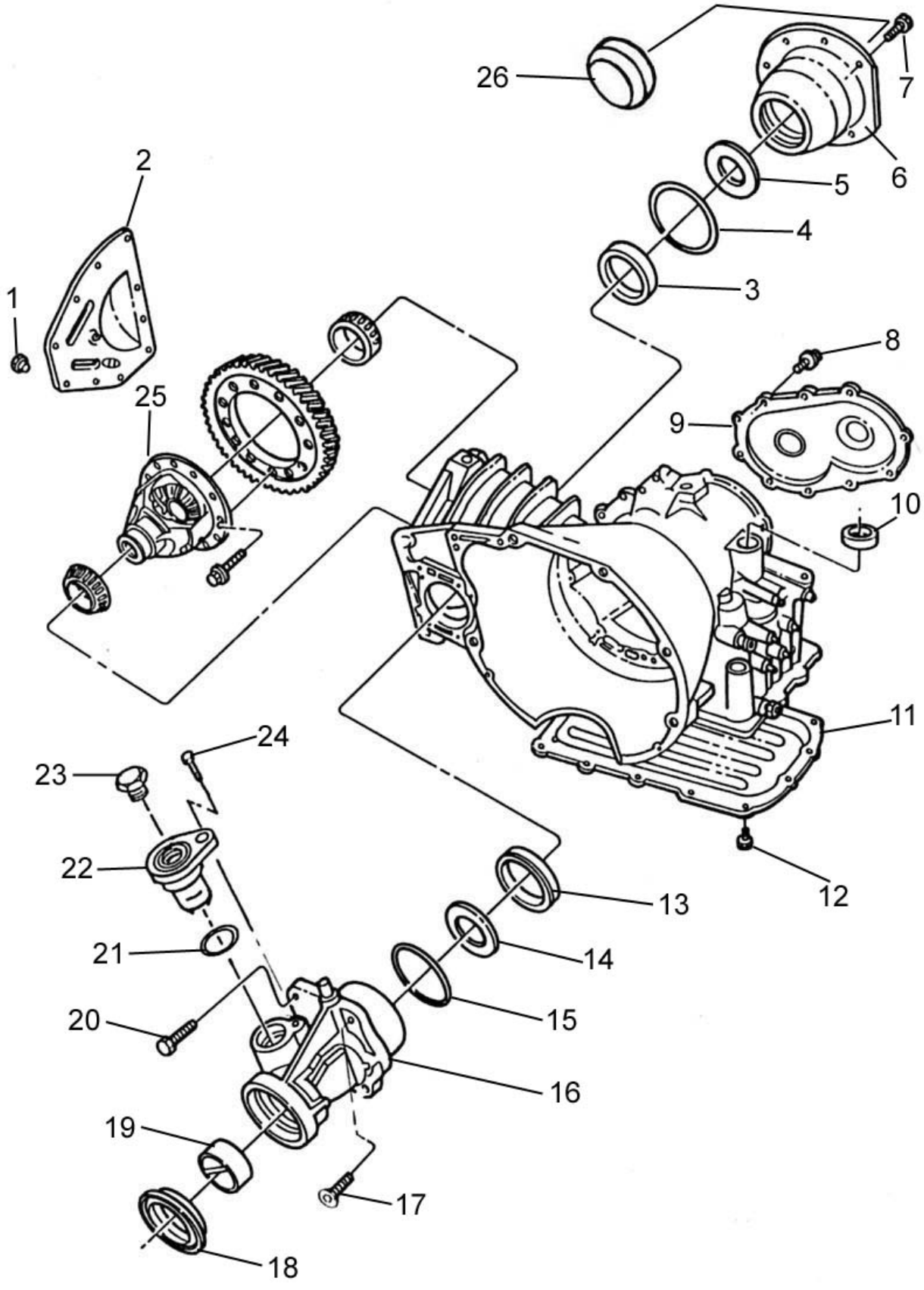
TRANSMISSION

TRANSAXLE MOUNTING & MISC. PARTS DETAIL

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	A-TT5D-0018	1	TRANSAXLE
2	A-TN4-00707	1	GROUND STRAP
3	3747361	1	SWITCH-NEUTRAL STARTER & BACK UP LIGHT
4	4856444	1	INDICATOR-TRANSAXLE FLUID
5	5240849	2	DOWEL PIN-TRANSAXLE TO ENGINE ALIGNMENT
6	4778718	1	TORQUE CONVERTER
7	A-TT4-00419-1	1	TRANSAXLE SHIFT LEVER-MANUAL CONTROL
8	6501741	*	SCREW-HEX CAP-WITH WASHER M12-1.75 X 30
	85705	*	GASKET & FILTER MAINTENANCE PACKAGE

* CALL EAGLE PARTS DEPT. FOR DETAILS

TRANSAXLE CASE EXTENTION & RETAINER



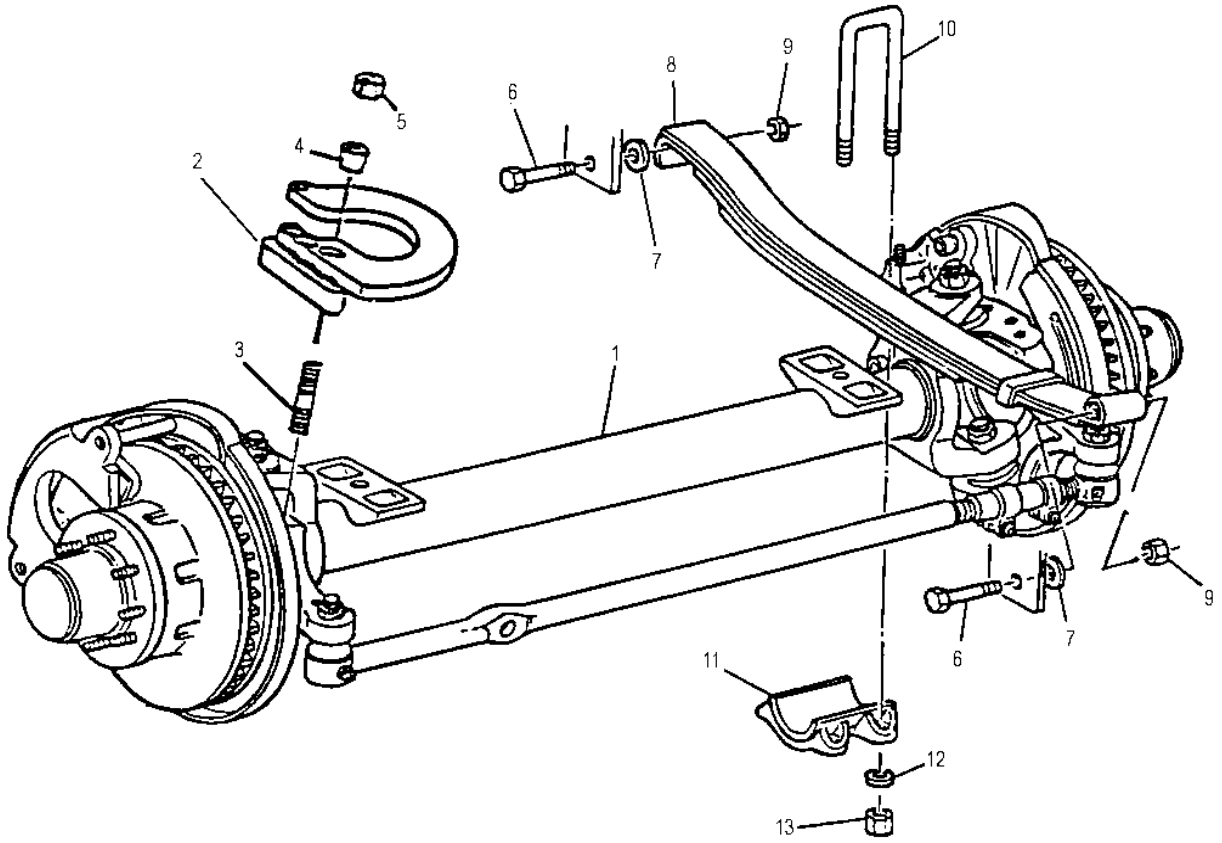
TRANSMISSION

TRANSAXLE CASE EXTENTION & RETAINER - DETAIL

Item	Part Number	Qty	Description
1	6501474	10	SCREW-HEX CAP-W/WASHER M8-1.25 X 16
2	4471573	1	PAN
3	NPN	1	CUP(NOT SOLD SEPARATELY)
4	4504568	1	SPACER KIT
5	4269787	1	RETAINER, OIL
6	4567493	1	RETAINER, BEARING
	6500368	6	SCREW-HEX CAP-M8 X 1.25 X 23
7	NPN	6	SCREW-HEX CAP-WASHER HEAD M8-1.25 X
8	NPN	10	SCREW-HEX CAP M8-1.25 X 15
9	4659342	1	COVER, TRANS. END
	82180	1	RTV SEALANT
	6501474	10	SCREW-HEX CAP W/WASHER M8-1.25 X 16
10	3878447	1	SEAL, MANUAL VALVE SHAFT
11	4471573	1	PAN, TRANSAXLE OIL
12	6501474	12	SCREW-HEX CAP W/WASHER M8-1.25 X 16
	6101285	1	SCREW-HEX CAP-W/WASHER M6-1 X 16
13	4567022	1	CUP
14	4567494	1	RETAINER
15	6500111	1	O-RING
16	BTT5G00020-V6	1	OUTPUT HOUSING
	6500511	4	SCREW-HEX CAP-W/WASHER M8-1.25 X 33
17	NPN	2	M8 HEX HEAD SCREW
18	4412522	1	SEAL
19	NPN	1	BUSHING (SERVICED IN EXT.)
20	NPN	4	SCREW-HEX CAP WASHER HEAD M8-1.25 X
21	5212151	1	O-RING
22	4295857	1	SPEEDOMETER CABLE ADAPTOR
23	NPN	1	SCREW-FLAT HEAD HEX SOCKET M8-1.25 X
24	NPN	1	SCREW-HEX CAP-WASHER HEAD M6-1.0 X
25	A-TT5D-00021	1	DIFFERENTIAL-WELDED SPIDER GEAR
26	A-TT4-00657	1	TRANSMISSION PLUG (2WD ONLY)
N/A	4412475	1	CONVERTER SEAL

AXLES

AXLE ASSEMBLY—FRONT NON-DRIVE TT4-TT6 2WD ONLY



AXLE ASSEMBLY—FRONT NON-DRIVE—DETAIL

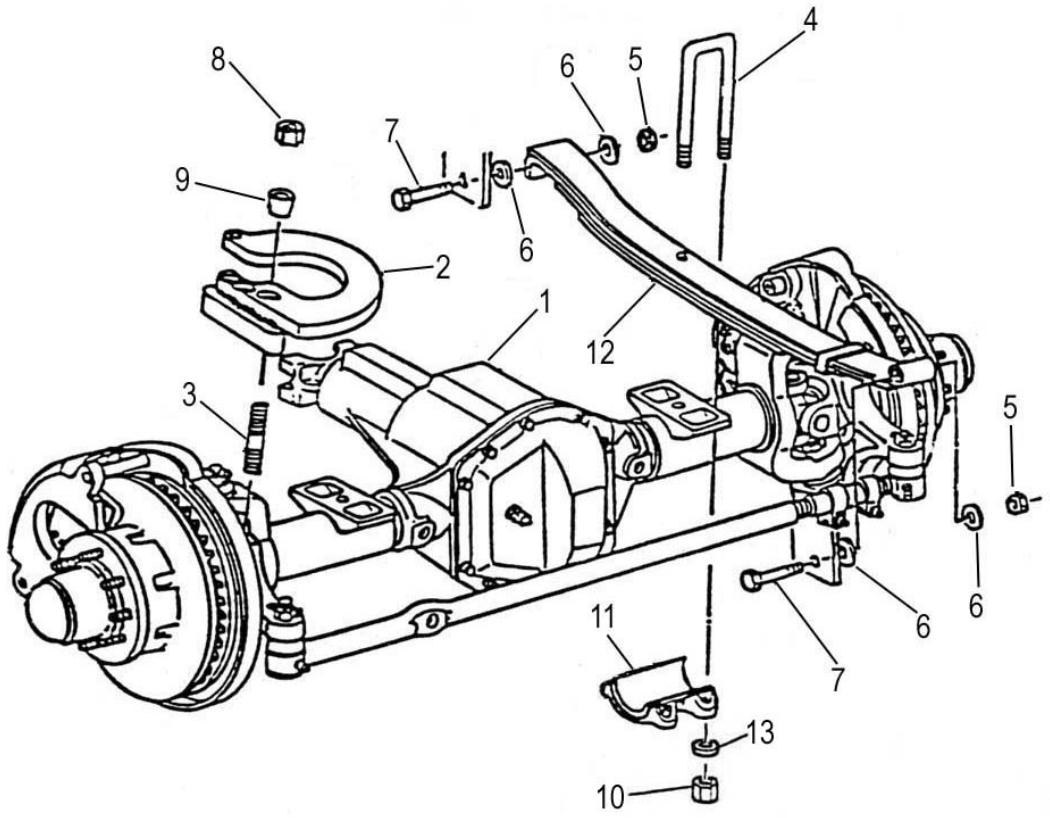
Item	Part Number	Qty	Description
1	A-TT4-00111	1	AXLE ASSAY-FRONT NON-DRIVE
2	C-TT4-00113-1	1	STEERING ARM TT4-TT8/2AWD
3	A-TT8-00115	3	STUD-STEERING ARM
4	3965138	3	BUSHING
5	NPN	3	9/16-18 GR8 HEX NUT
6	NPN	4	SCREW-HEX CAP 3/8-16X3.5
7	A-TT4-00119	12	NYLON WASHER
8	A-TT4-00116	2	LEAF SPRING
9	NPN	8	3/8-16 LOCK NUT
10	A-TT4-00362-1	4	U-BOLT KIT
11	A-TT4-00363*	2	MACHINED AXLE CLAMP PLATE*
12	NPN**	8	WASHER**
13	NPN**	4	NUT, LOCK 9/16-18
14	NPN	2	3/8 FLAT WASHER

* AXLE CLAMP MUST BE MODIFIED - CALL EAGLE PARTS DEPARTMENT FOR DETAILS
**INCLUDED IN #7 U-BOLT KIT

NOTE: Steering arm bolts must be re-torqued to 120 Ft lbs. (# 5 in above drawing) after 50, 100, 250, 500, 1000 and 2000 hours. If not checked bolts could loosen causing the steering knuckle to break.

AXLES

AXLE ASSEMBLY—FRONT DRIVE (4WD)



AXLE ASSEMBLY—FRONT DRIVE—DETAIL

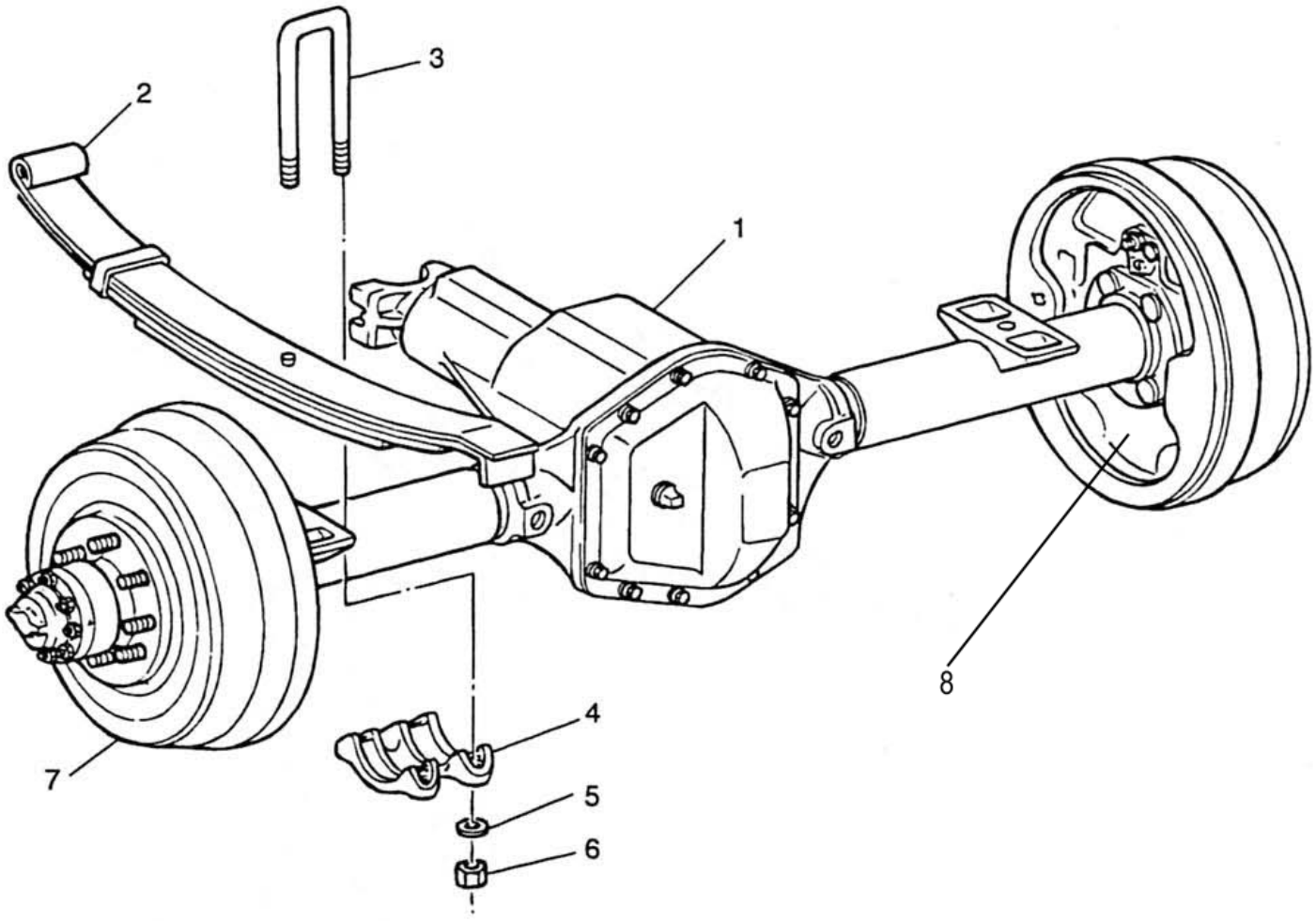
ITEM	PART NUMBER	QTY.	DESCRIPTION
1	A-TT8-00371	1	FRONT DRIVE AXLE ASSEMBLY
2	C-TT4-00113-2	1	STEERING ARM - TT4-TT8/2 AWD
3	A-TT8-00115	3	STUD - STEERING ARM
4	A-TT4-00362-1	4	KIT
5	NPN	4	3/8X16 LOCK NUT
6	A-TT4-00119	8	NYLON WASHER
7	NPN	4	SCREW-HEX CAP 3/8-16X3.5
8	NPN	3	NUT 9/16-18 GR8
9	3965138	3	BUSHING
10	NPN*	8	NUT-HIGH 9/16-18*
11	A-TT4-00118-3	2	MACHINED AXLE CLAMP PLATE
12	A-TT4-00116	2	LEAF SPRING
13	NPN*	8	WASHER

* INCLUDED IN #4 U-BOLT KIT

NOTE: Steering arm bolts must be re-torqued to 120 Ft lbs. (# 8 in above drawing) after 50, 100, 250, 500, 1000 and 2000 hours. If not checked bolts could loosen causing the steering knuckle to break.

AXLES

AXLE ASSEMBLY— REAR

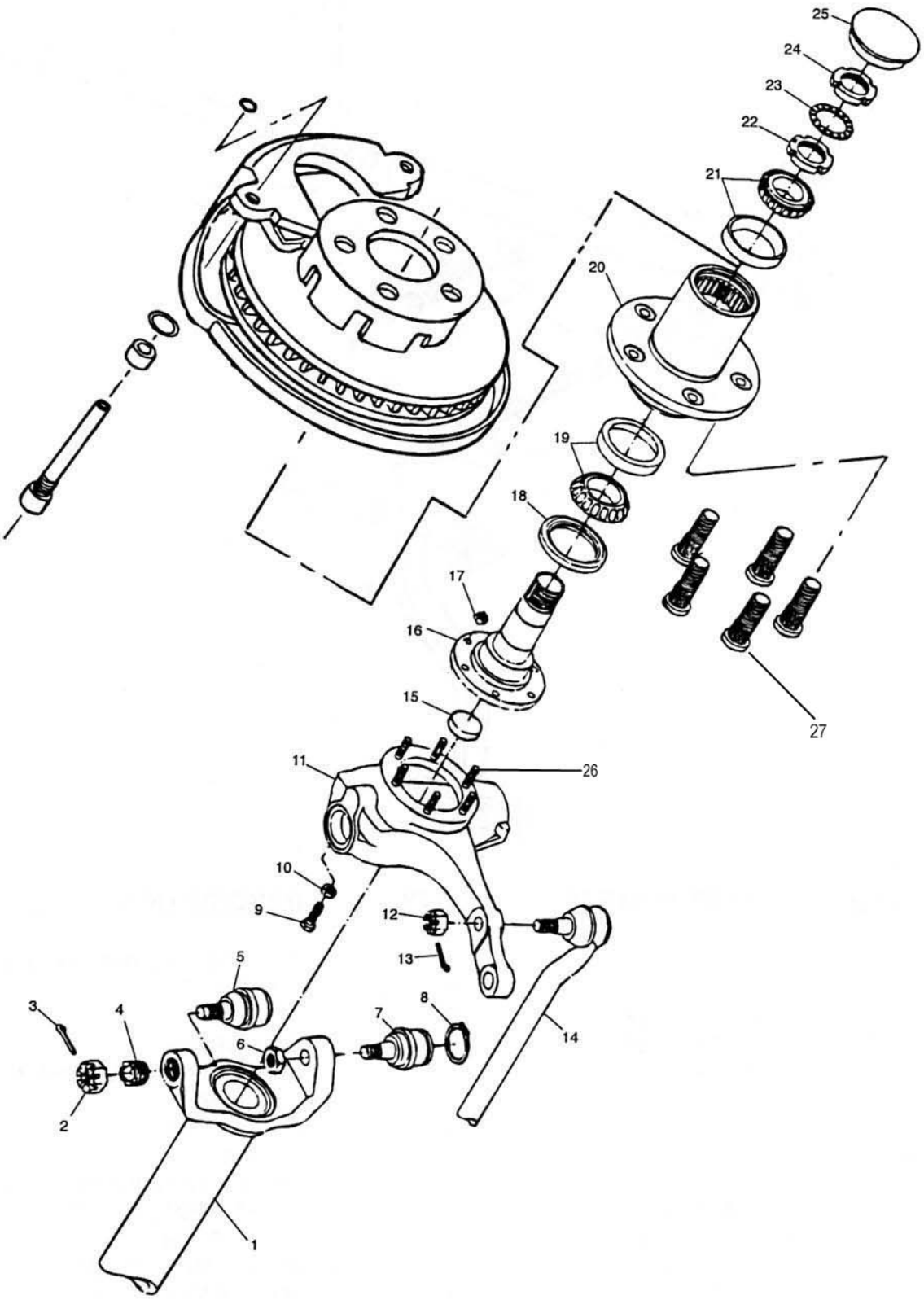


AXLE ASSEMBLY—REAR—DETAIL

1	A-TT4-00361	1	REAR AXLE ASSEMBLY
2	A-TT4-00116	2	LEAF SPRING
3	A-TT4-00362-1	4	U-BOLT
4	A-TT4-00363	2	AXLE CLAMP PLATE
5	A-TT4-00366	8	WASHER
6	A-TT4-00365	8	NUT
7	4313905	1	LEFT HAND BACKING PLATE
8	4313904	1	RIGHT HAND BACKING PLATE

NOTES

AXLE ASSEMBLY BREAKDOWN— FRONT NON-DRIVE (2WD)

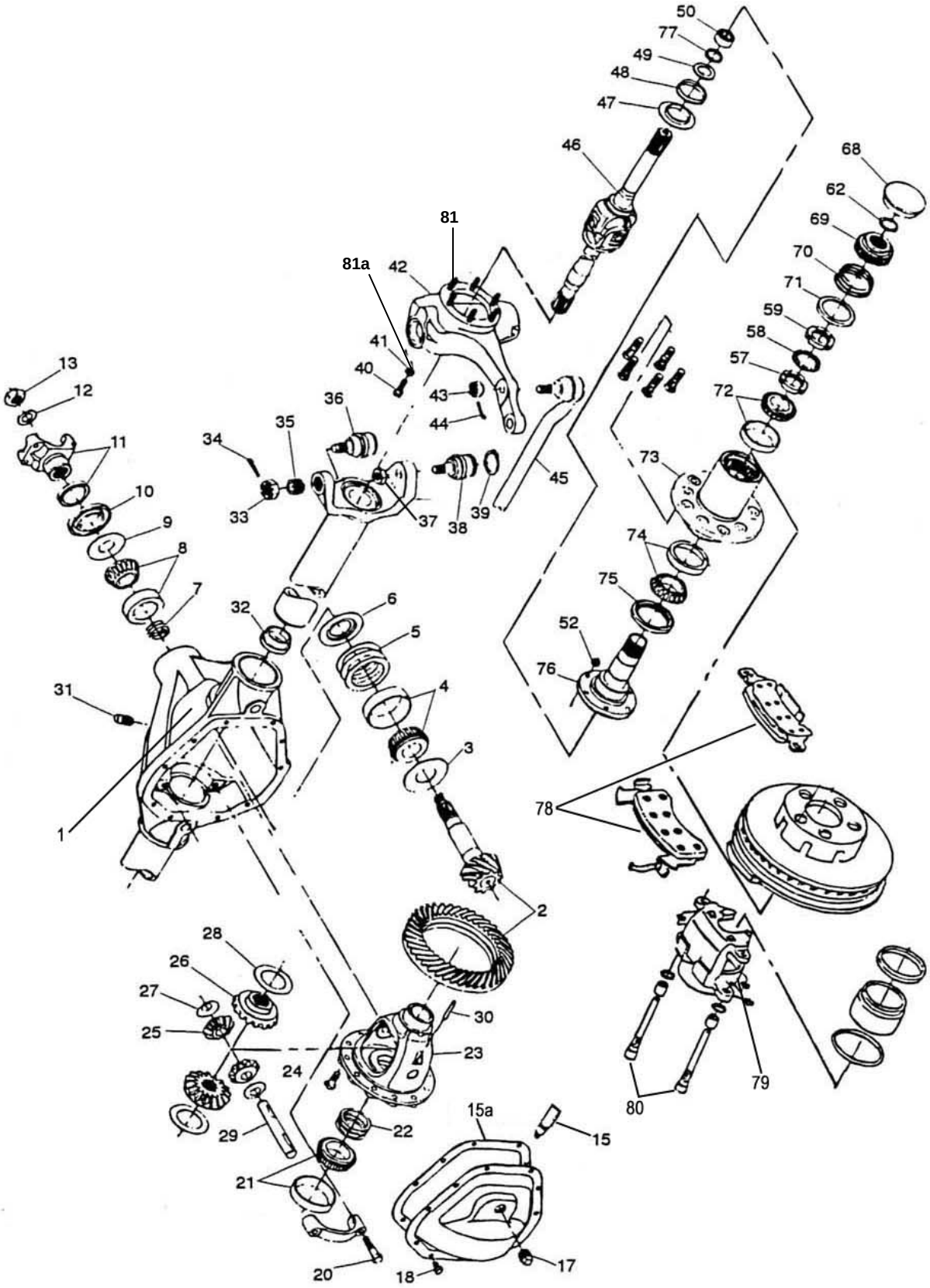


AXLES

AXLE ASSEMBLY BREAKDOWN –FRONT NON-DRIVE—DETAIL

Item	Part Number	Qty	Description
1	29775-29X	1	TUBE ASSEMBLY
2	44101	2	NUT-SLOTTED
3	500024-8	2	PIN-COTTER
4	35417	2	RING-ADJUSTING
5	40112	1	SOCKET ASSEMBLY UPPER
6	35566	2	NUT-LOCK
7	40113	1	SOCKET ASSEMBLY LOWER
8	35928	1	RING-SNAP
9	31026-1	2	BOLT-STOP
10	500381-3	2	NUT-JAM
11	706652X	KIT	STEERING KNUCKLE R/H
11	706653X	KIT	STEERING KNUCKLE L/H
12	44101	2	NUT-SLOTTED
13	500024-6	2	PIN-COTTER
14	044TR115-16X	1	TIE ROD ASSEMBLY
15	36544	2	PLUG-CAP
16	38428	2	SPINDLE-WHEEL BEARING
17	35704	12	NUT-LOCK
18	36361	2	SEAL-LOCK
19	706690-X	KIT	INNER WHEEL BEARING
20	044HU103	2	HUB & ROTOR ASSEMBLY
21	706111-X	KIT	OUTER WHEEL BEARING
22	21588X	2	SPINDLE NUT
23	36569	2	LK WASHER-WHEEL BRG NUT
24	31139	2	NUT-SPINDLE
25	31552	2	CAP-HUB
26	36326-2	6	STUD STEERING KNUCKLE
N/S	044WC101-2	1	CALIPER ASSEMBLY R/H
N/S	044WC101-1	1	CALIPER ASSEMBLY L/H
N/S	044WB101-1	1	BRACKET ASSEMBLY-CALIPER L/H
N/S	044WB101-2	1	BRACKER ASSEMBLY-CALIPER R/H
27	610286	8	WHEEL STUDS

AXLE ASSEMBLY BREAKDOWN—FRONT DRIVE (4WD)



AXLE ASSEMBLY BREAKDOWN—FRONT DRIVE—DETAIL

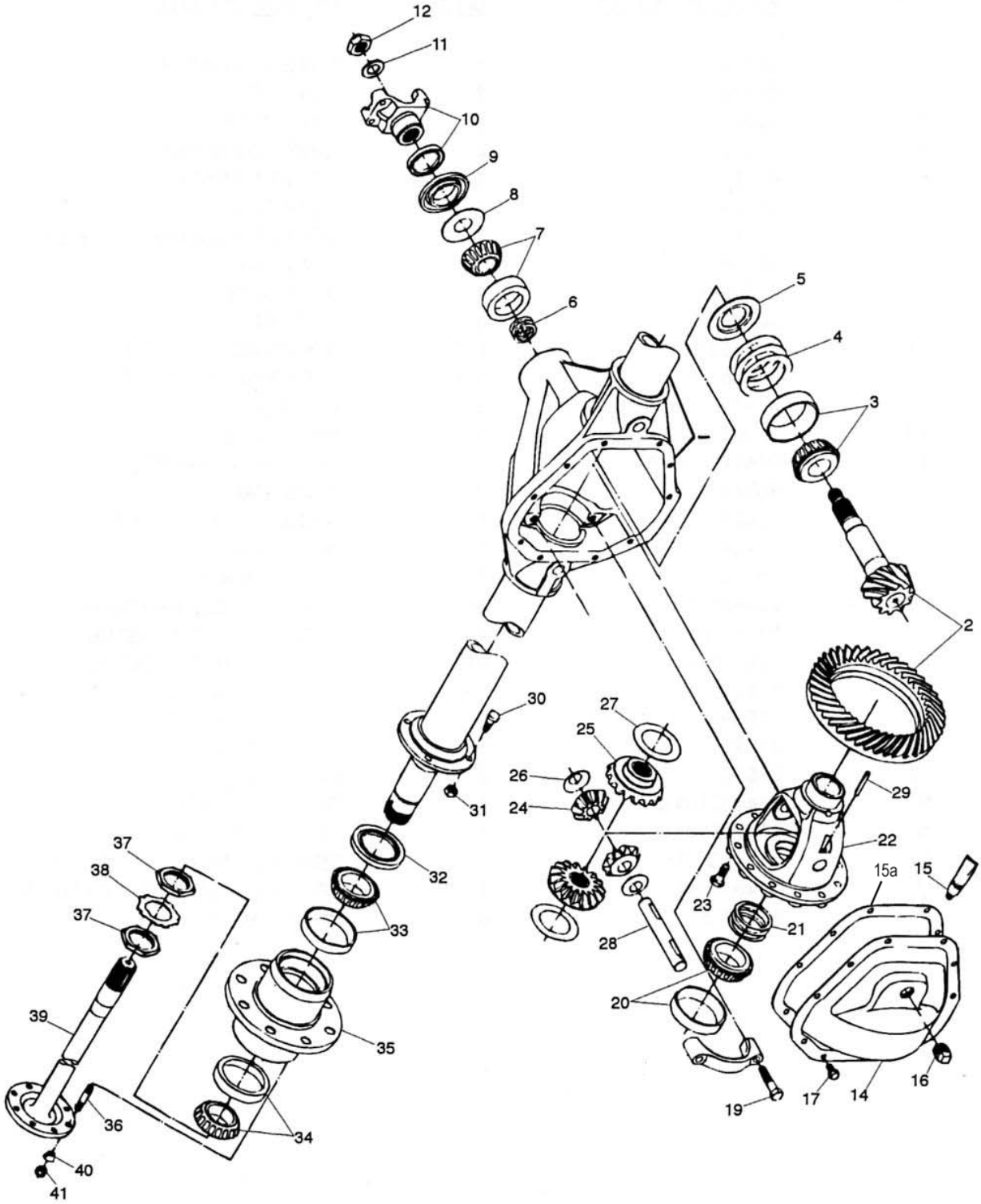
Item	Part Number	Qty	Description
1	A-TT8-00371	1	COMPLETE AXLE ASSEMBLY
2	22404X	1	GEAR & PINION ASSEMBLY
3	30764	1	SLINGER-PINION OIL INNER
4	706031X	KIT	INNER PINION BEARING
5	706617X	KIT	SHIM-PINION ADJUSTING
6	30765	1	BAFFLE-PINION OIL
7	706617X	KIT	SHIM-PINION BEARING ADJUSTING
8	706030	KIT	OUTER PINION BEARING
9	13575	1	SLINGER-PINION OIL OUTER
10	39118	1	SEAL-OIL
11	345761X	1	END YOKE ASSEMBLY
12	30186	1	WASHER-PINION NUT
13	30185	1	NUT-PINION
15	82180	AR	RTV SEALANT
15a	34685	1	GASKET
17	36472	1	PLUG-COVER PLATE
18	34279	10	SCREW-FLANGE HD
19	N/A	2	CAP DIFFERENTIAL BEARING
20	48632-1	2	1/2-13 X 2.25 GRD8 HEX BOLT
21	706032X	KIT	DIFFERENTIAL BEARING
22	706618X	KIT	DIFFERENTIAL SHIM
23	25806X	1	CASE-DIFFERENTIAL ASSY
	32684	1	CASE-DIFFERENTIAL
24	41221	10	BOLT-DRIVE GEAR
25	17717	2	PINION-DIFFERENTIAL
26	706027X	2	GEAR-DIFFERENTIAL KIT (INCLUDES 15a AND 24-29)
27	13338-3	2	THRUST WASHER DIFFERENTIAL PINION
28	32121	2	THRUST WASHER DIFFERENTIAL GEAR
29	39194	1	SHAFT-DIFFERENTIAL
30	13449	1	PIN-ROLL
31	16979	1	VENT
32	36352	2	SEAL & GUIDE-SHAFT
33	44101	2	NUT-SLOTTED
34	500024-8	2	PIN-COTTER
35	35417	2	RING-ADJUSTING
36	40112	1	SOCKET ASSEMBLY-UPPER
37	35566	2	NUT-LOCK
38	40113	1	SOCKET ASSEMBLY-LOWER
39	35928	1	RING-SNAP
40	310026-2	2	BOLT-STOP
41	500381-3	2	NUT-LOCK
42	706652X	KIT	STEERING KNUCKLE R/H
42	706653X	KIT	STEERING KNUCKLE L/H
43	44101	2	NUT-SLOTTED
44	500024-4	2	PIN-COTTER
45	044TR115-16X	1	TIE ROD ASSEMBLY
46	660091-18	2	SHAFT & JOINT ASSEMBLY
47	36364	1	SLINGER

AXLE ASSEMBLY BREAKDOWN—FRONT DRIVE—DETAIL (CONT.)

Item	Part Number	Qty	Description
48	38128	2	SEAL-OIL
49	38106	2	SPACER
50	550759	2	BEARING-NEEDLE
52	35704	12	NUT-LOCK
57	21588X	2	SPINDLE NUT
58	36569	2	LOCK-RETAINING NUT
59	31139	2	NUT-SPINDLE
62	31624	2	RING-SNAP
68	31552	2	CAP-HUB
69	42667	2	GEAR-AXLE DRIVE
70	35218	2	SPRING PRESSURE
71	32589	2	PLATE-SPRING RETAINING
72	706111X	KIT	OUTER WHEEL BEARING
73	044HU103	2	HUB & ROTOR ASSEMBLY
74	706690-X	KIT	INNER WHEEL BEARING
75	36366	2	AXLE SEAL
76	706570	KIT	SPINDLE ASSEMBLY
	7065227X	KIT	SPINDLE SEAL & BEARING
77	36361	1	SEAL-OIL
78	RD52	1 SET	BRAKE PAD SET
79	18-4167	1	CALIPER ASSY LEFT
79	18-4166	1	CALIPER ASSY RIGHT
80	5468226	1SET	ANCHOR BOLTS
81	36326-2	6	STEERING KNUCKLE STUDS
81a	500381-3	6	NUT-LOCK

NOTES

AXLE ASSEMBLY BREAKDOWN—REAR DRIVE

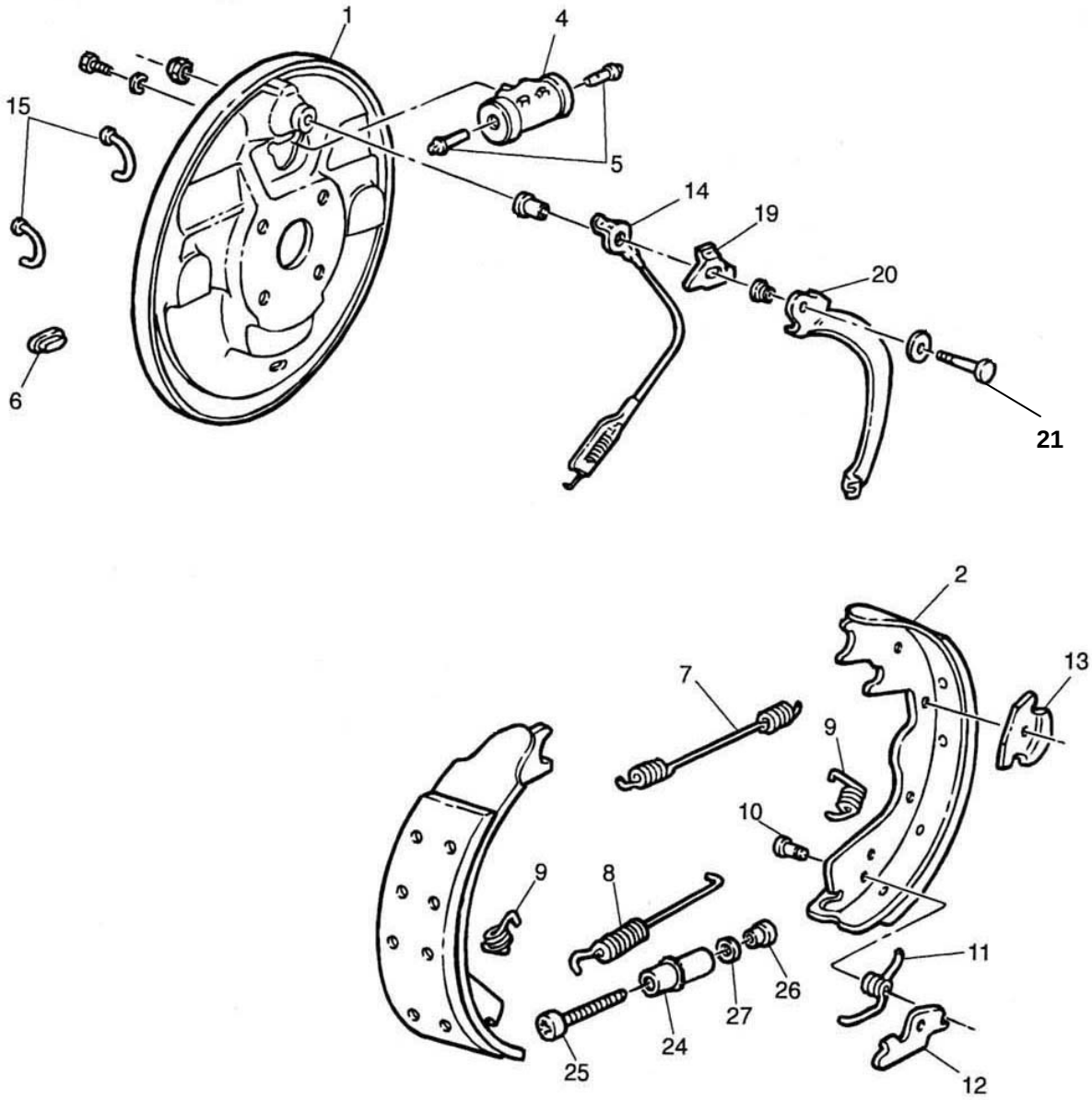


AXLES

AXLE ASSEMBLY BREAKDOWN—REAR DRIVE—DETAIL

	A-TT4-00361	1	COMPLETE AXLE ASSEMBLY
2	706033-10X	KIT	DRIVE GEAR & PINION
3	706046X	KIT	INNER PINION BEARING
4	706672X	KIT	SHIM-DRIVE PINION ADJUSTING
5	30765	1	BAFFLE-PINION BEARING
6	706672X	KIT	SHIM-PINION BEARING ADJUSTING
7	706045X	KIT	OUTER PINION BEARING
8	30273	1	SLINGER-PINION BEARING
9	38427	1	SEAL-PINION
10	345731X	1	END YOKE ASSEMBLY
11	30275	1	WASHER-PINION NUT
12	30271	1	NUT-PINION
14	73597	1	COVER ASSEMBLY
15	82180		RTV SEALANT
15a	39697	1	AXLE GASKET
16	98785	1	PLUG-PIPE SLOTTED
17	34822	10	SCREW-FLANGE HD
18	N/A	1	CAP DIFFERENTIAL BEARING
19	48632-1	2	1/2-13 x 2.25 GRD8 BOLT BEARING CAP
20	706047X	KIT	BEARING
21	706673X	KIT	SHIM-DIFFERENTIAL BEARING
22	706669X	KIT	CASE-DIFFERENTIAL
23	30266	10	BOLT-DRIVE GEAR
24	SEE KIT	KIT	PINION-DIFFERENTIAL
25	SEE KIT	KIT	GEAR-DIFFERENTIAL
26	SEE KIT	KIT	THRUST WASHER-PINION
27	SEE KIT	KIT	THRUST WASHER-GEAR
28	SEE KIT	KIT	SHAFT-DIFFERENTIAL
29	500598-21	1	LOCK-DIFFERENTIAL
30	36253	8	BOLT-BRAKE MANUFACTURING
31	36805	8	NUT-BRAKE MANUFACTURING
32	36240	2	SEAL-OIL
33	706071X	KIT	INNER WHEEL BEARING
34	706072X	KIT	OUTER WHEEL BEARING
35	36241	2	HUB & DRUM ASSEMBLY
36	36847	8	STUD-HUB
37	30636	4	NUT-SPINDLE
38	30637	2	LOCK WASHER WHEEL BEARING
39	34887-7	1	SHAFT-AXLE FLANGE LONG
	34887-10	1	SHAFT-AXLE FLANGE SHORT
40	31534	16	ADAPTER-STUD
41	36805	24	NUT-LOCK
	16979	1	VENT
	060WD100	1	BRAKE ASSEMBLY-SHOE TYPE-RIGHT
	060WD101	1	BRAKE ASSEMBLY-SHOE TYPE-LEFT
KIT	706671X	1	DIFFERENTIAL PARTS (STANDARD) INCLUDES 15, 21-23, 29
KIT	707084X	1	DIFFERENTIAL PARTS (LIMITED SLIP) INCLUDES 15, 21, 23, 24, 26, 28, 29, 43-48

DRUM BRAKE ASSEMBLY—REAR



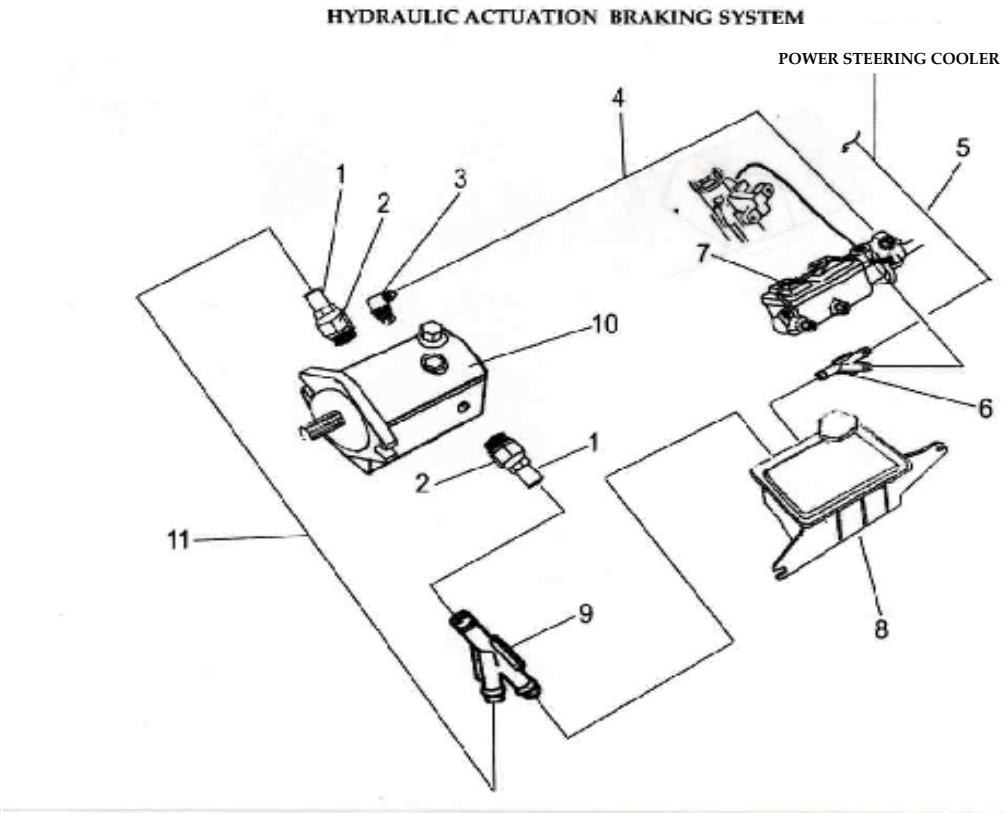
BRAKES

DRUM BRAKE ASSEMBLY—REAR –DETAIL

Item	Part Number	Qty	Description
	060WD101	1	BRAKE ASSEMBLY L/H
	060WD100	1	BRAKE ASSEMBLY R/H
1	4313905	1	BACKING PLATE L/H
1	4313904	1	BACKING PLATE R/H
2	FR357	1 SET	SHOE & LINING SET
4	2235585	1	CYLINDER ASSEMBLY L/H
4	2235586	1	CYLINDER ASSEMBLY R/H
5	315834	2	WHEEL CYLINDERS CONNECTING LINK
6	*SEE KIT BELOW	1	COVER
7	*SEE KIT BELOW	1	SPRING-UPPER
8	*SEE KIT BELOW	1	SPRING-LOWER
9	*SEE KIT BELOW	2	SPRING-HOLD DOWN
10	*SEE KIT BELOW	1	PIN
11	*SEE KIT BELOW	1	SPRING TENSION
12	*SEE KIT BELOW	1	BRAKE ADJUSTING LINK
13	*SEE KIT BELOW	1	CABLE GUIDE
14	*SEE KIT BELOW	1	CABLE ASSEMBLY
15	*SEE KIT BELOW	2	SPRING-HOLD DOWN
19	4383299	1	PARKING BRAKE CAM L/H
19	4383298	1	PARKING BRAKE CAM R/H
20	4383264	1	PARKING BRAKE LEVER (LEFT)
20	4383265	1	PARKING BRAKE LEVER (RIGHT)
21	4419698	1	BRAKE ANCHOR BOLT
24	*SEE KIT BELOW	1	BRAKE ADJUSTING SOCKET L/H
25	*SEE KIT BELOW	1	BRAKE ADJUSTING SCREW L/H
26	*SEE KIT BELOW	1	BRAKE ADJUSTING SOCKET
27	*SEE KIT BELOW	1	WASHER FLAT
KIT	H2588	LEFT	BRAKE ADJUSTING KIT INCLUDES PART
			6,10,11,12,14,13,20,24,25,26,27
KIT	H2589	RIGHT	BRAKE ADJUSTING KIT INCLUDES PART
			6,10,11,12,14,13,20,24,25,26,27
KIT	H7146		BRAKE SPRING KIT INCLUDES PART
			7,8,9,15

*KIT PARTS NOT SOLD SEPERATELY

BRAKES

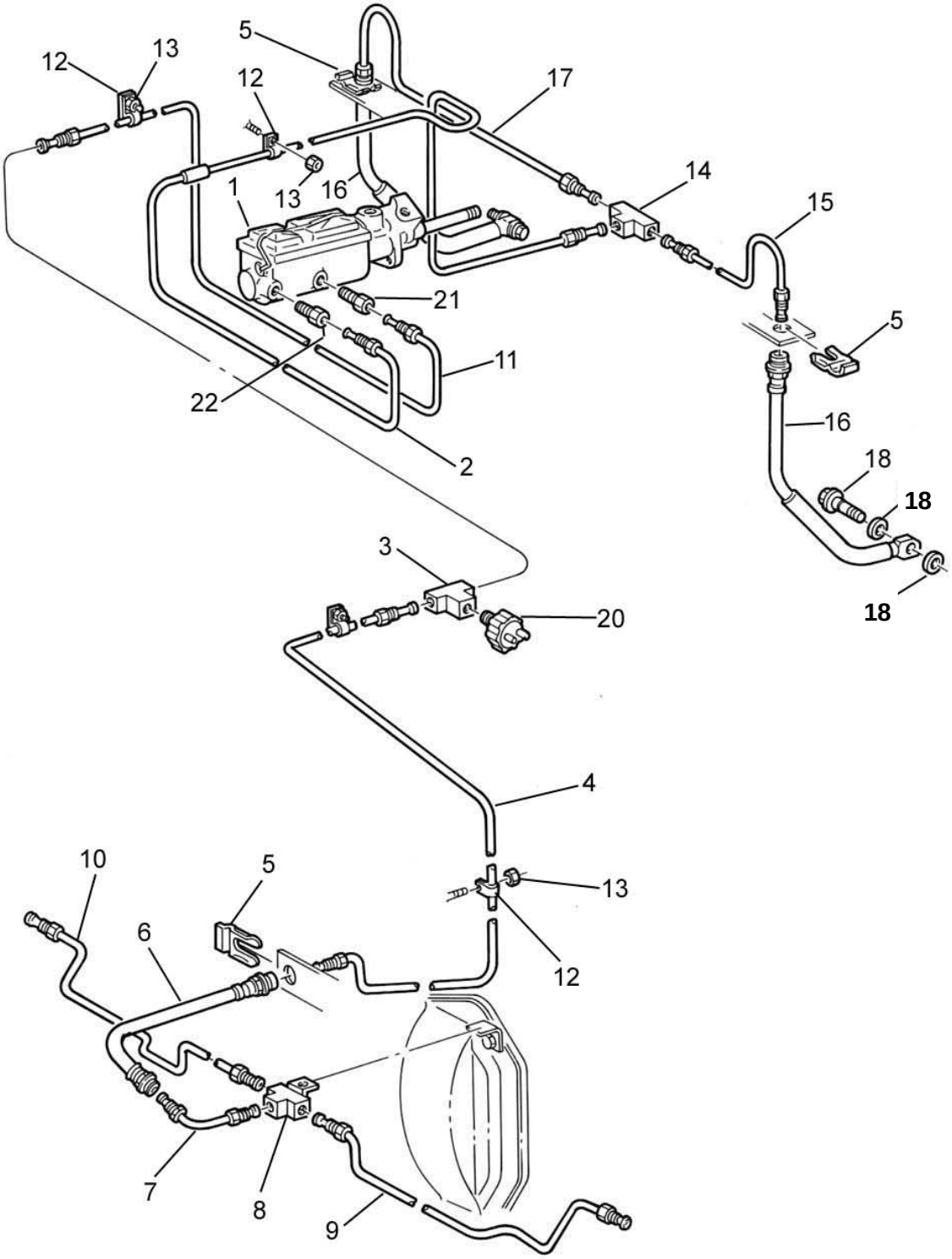


HYDRAULIC ACTUATION BREAKING SYSTEM—DETAIL

Item	Part Number	Qty	Description
1	05712B-108	2	NIPPLE
2	C3269X12X8	1	BUSHING
3	C5515X6	1	90 DEGREE SWIVEL FITTING
4	NPN	1	CUT TO FIT, BULK HOSE
5	NPN	6	CUT TO FIT, BULK HOSE - 3/8" 350 PSI
6	A-TT4-00207	1	RETURN LINE TEE
7	A-TT4-00161	1	MASTER CYLINDER
8	A-TT4-00322-2	1	RESERVOIR TANK
9	A-TT4-00606	1	Y FITTING
10	SP20P11L145H2R	1	PUMP
11	12GMV MEGAVAC	1	CUT TO FIT, BULK HOSE 3/4" SUCTION

NOTES

BRAKE SYSTEM—HYDRAULIC



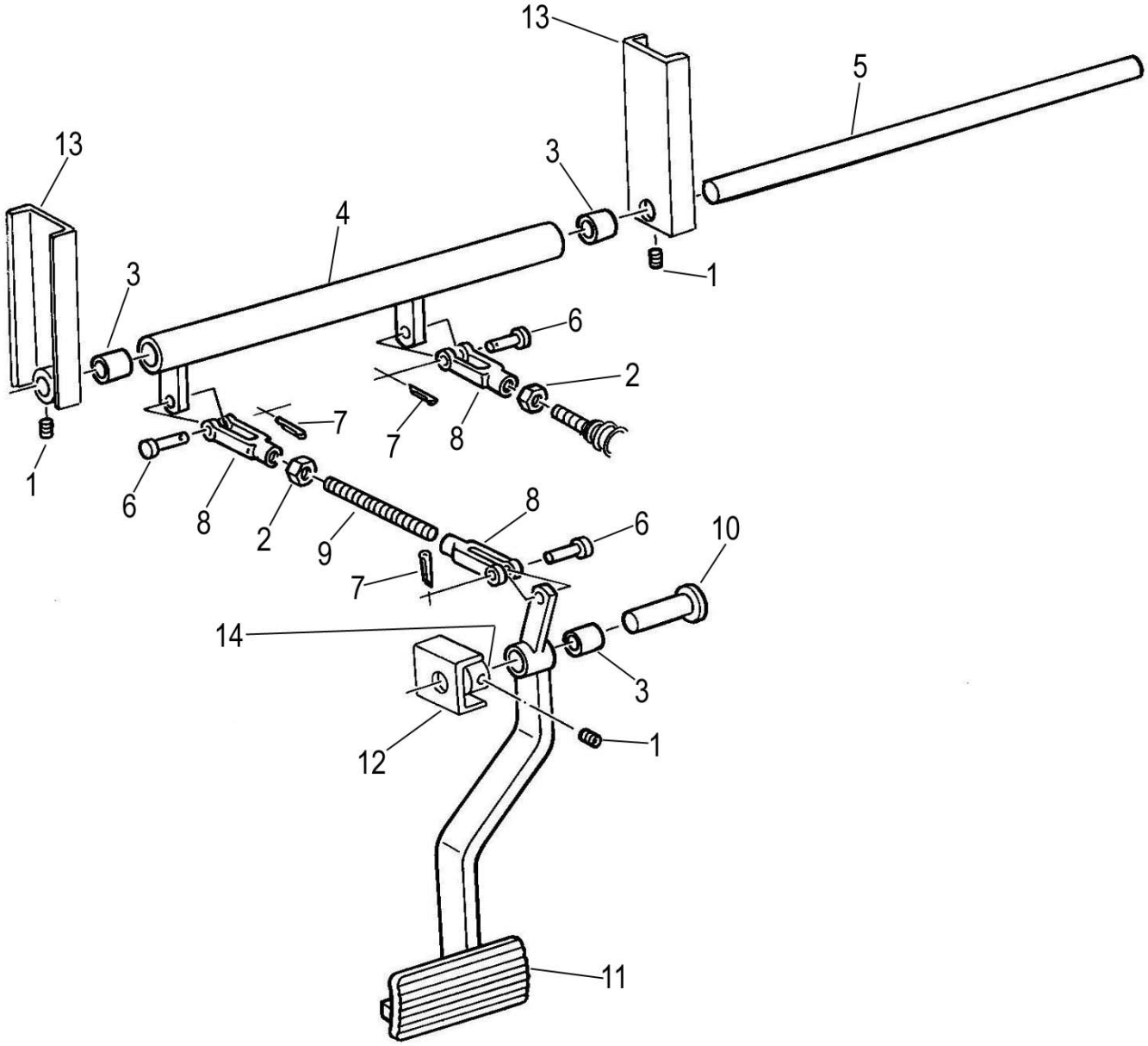
BRAKES

BRAKE SYSYEM—HYDRAULIC—DETAIL

Item	Part Number	Qty	Description
1	A-TT4-00161	1	MASTER CYLINDER
2	A-TT4-00162	1	BRAKE LINE MASTER CYLINDER
3	A-TT4-00163	1	BRAKE LIGHT SWITCH TEE
4	A-TT4W-00164	1	BRAKE LINE REAR
5	A-TT4-00165	3	BRAKE HOSE CLAMP
6	A-TT4-00166	1	BRAKE HOSE REAR
7	A-TT4-00167	1	BRAKE LINE
8	A-TT4-00168	1	CROSS TEE
9	A-TT4-00169	1	BRAKE LINE REAR RT
10	A-TT4-00170	1	BRAKE LINE LEFT REAR LT
11	A-TT4-00171	1	BRAKE LINE REAR
12	A-TT4-00172	4	LINE CLAMP
13	NPN	4	NUT-10-32
14	A-TT4-00174	1	CROSS TEE
15	A-TT4-00175	1	BRAKE LINE FRONT RIGHT
16	A-TT4-00176-1	2	CALIPER BRAKE LINE
17	A-TT4-00177	1	BRAKE LINE FRONT LEFT
18	A-TT4-00178*	2	BANJO BOLT & WASHER KIT
20	A-TT4-00173	1	BRAKE LIGHT SWITCH
21	A-TT5-00180	1	FITTING-MASTER CYLINDER ADAPTER
22	A-TT5-00181	1	FITTING-MASTER CYLINDER ADAPTER

BRAKES

BRAKE ACTUATOR ASSEMBLY



BRAKES

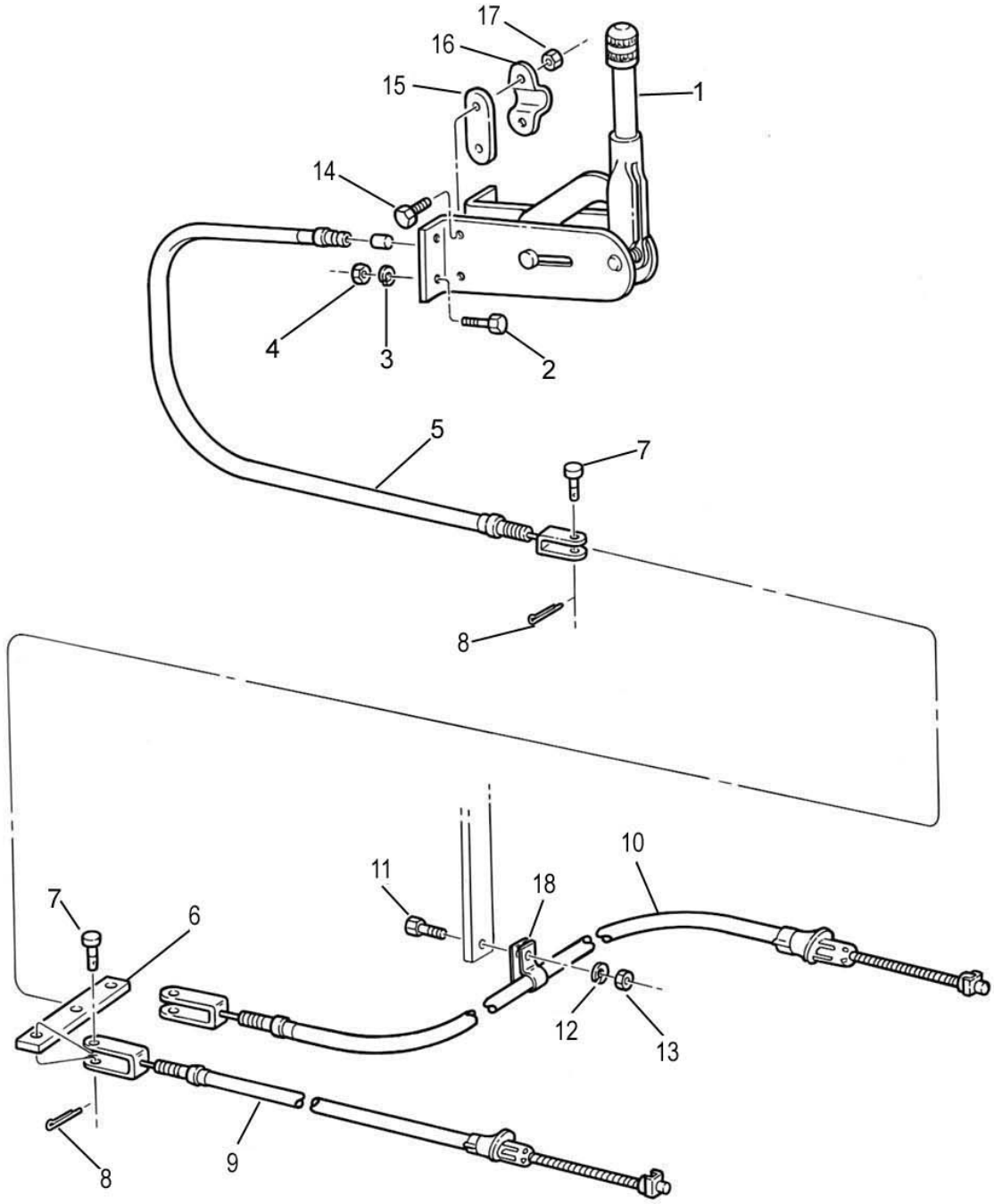
BRAKE ACTUATOR ASSEMBLY—DETAIL

Item	Part Number	Qty	Description
1	NPN	4	¼-20 SET SCREW
2	NPN	2	½-20 NUT
3	C-TT4-10188	3	THOMSON NYLINER BEARING
4	C-TT4-10186	1	BELL CRANK
5	C-TT4-10187	1	BELL CRANK PIVOT SHAFT
6	A-TT4-00193	3	CLEVIS PIN
7	NPN	3	COTTER PIN
8	A-TT4-10192	3	CLEVIS
9	NPN	1	½-20 X 12 ADJUSTING ROD
10	C-TT4-10182	1	BRAKE PEDAL PIVOT SHAFT
11	C-TT4-10181	1	BRAKE PEDAL
12*	NPN	1	BRAKE PEDAL PIVOT
13	NPN	2	BELL CRANK STANDOFF
14	A-TT2-0057	2	SHAFT COLLAR 3/4

* Welded to truck

BRAKES

PARKING BRAKE ACTUATOR ASSEMBLY



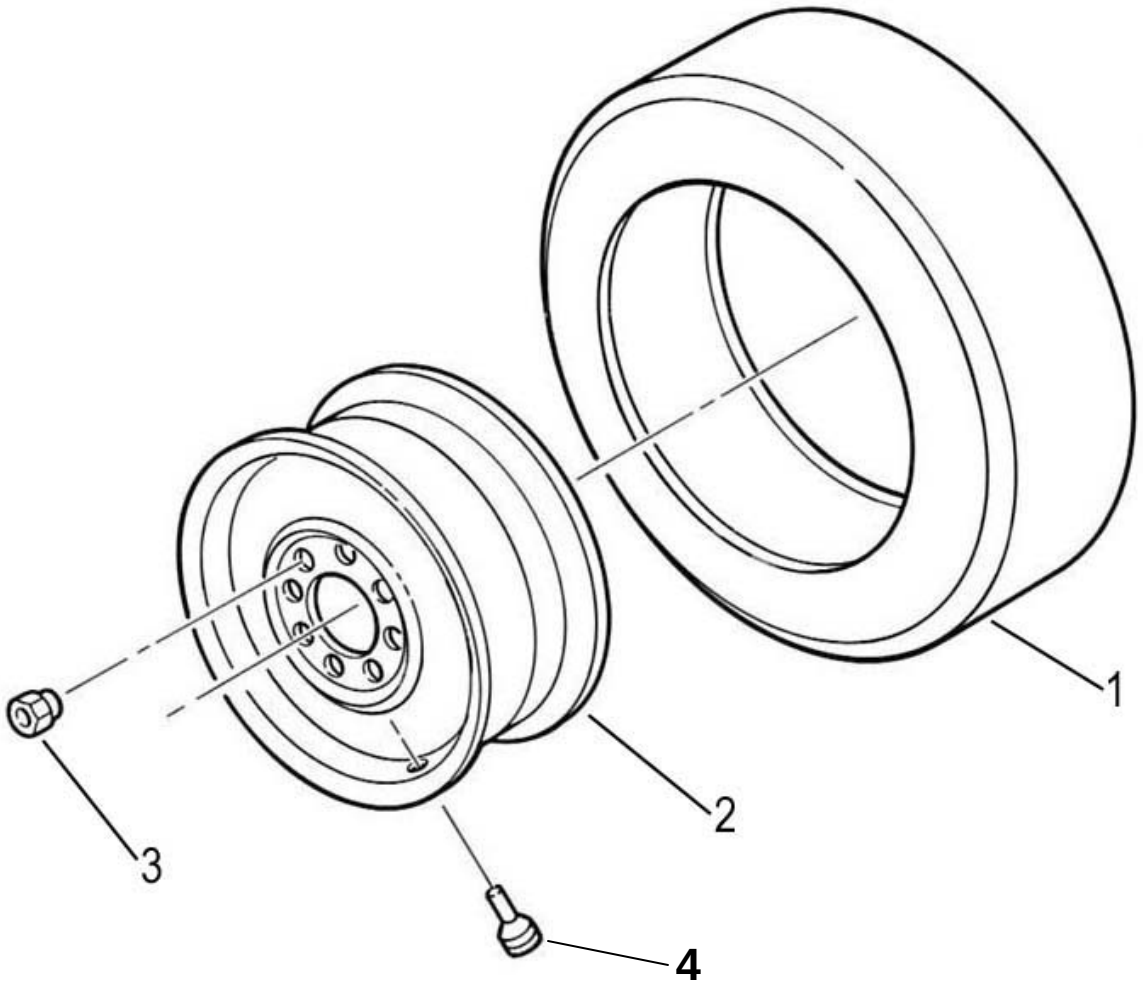
BRAKES

PARKING BRAKE ACTUATOR ASSEMBLY—DETAIL

Item	Part Number	Qty	Description
1	A-TT4-00141	1	HAND BRAKE
2	NPN	4	SCREW-HEX CAP-5/16-18 X 1
3	NPN	4	WASHER-FLAT-5/16
4	NPN	4	NUT-LOCK-5/16-18
5	B-TT4-00145	1	CABLE PRIMARY
6	A-TT4-00146	1	BAR EQUALIZER
7	NPN	3	CLEVIS PIN
8	NPN	3	COTTER PIN
9	A-TT4-00151	1	PARKING BRAKE CABLE SHORT
10	A-TT4-00150	1	PARKING BRAKE CABLE REAR LONG
11	NPN	1	SCREW-HEX CAP-14-20 X 1
12	NPN	1	WASHER-FLAT-1/4
13	NPN	1	NUT-LOCK-1/4-20
14	NPN	1	SCREW-HEX CAP-1/4-28 X 1
15	NPN	1	CABLE CLAMP PLATE
16	NPN	1	CABLE CLAMP HANDLE
17	NPN	2	NUT-LOCK-1/4-28
18	NPN	2	CABLE CLAMP

WHEELS & TIRES

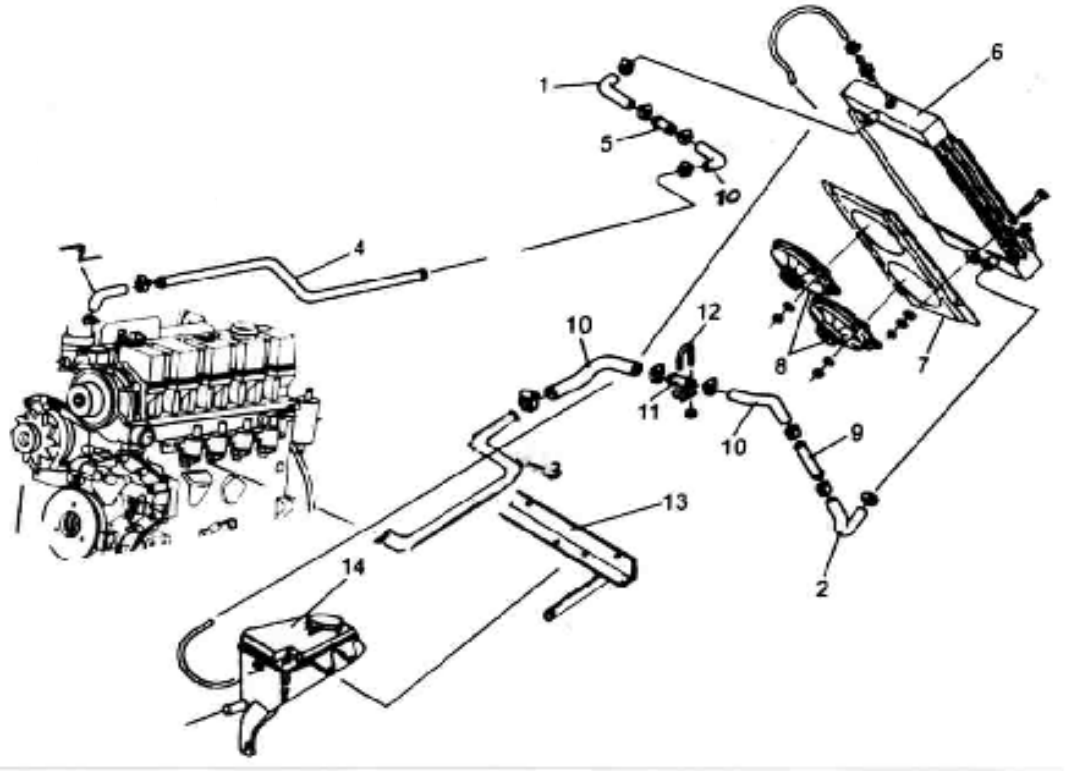
WHEEL & TIRE ASSEMBLY



WHEEL & TIRE ASSEMBLY—DETAIL

Item	Part Number	Qty	Description
1	A-TT8/2-00121-1	4	TIRE
2	A-TT4-00122-1	4	RIM
3	A-TT4-00123	32	LUG NUTS
4	A-TT4-00124	4	VALVE STEMS

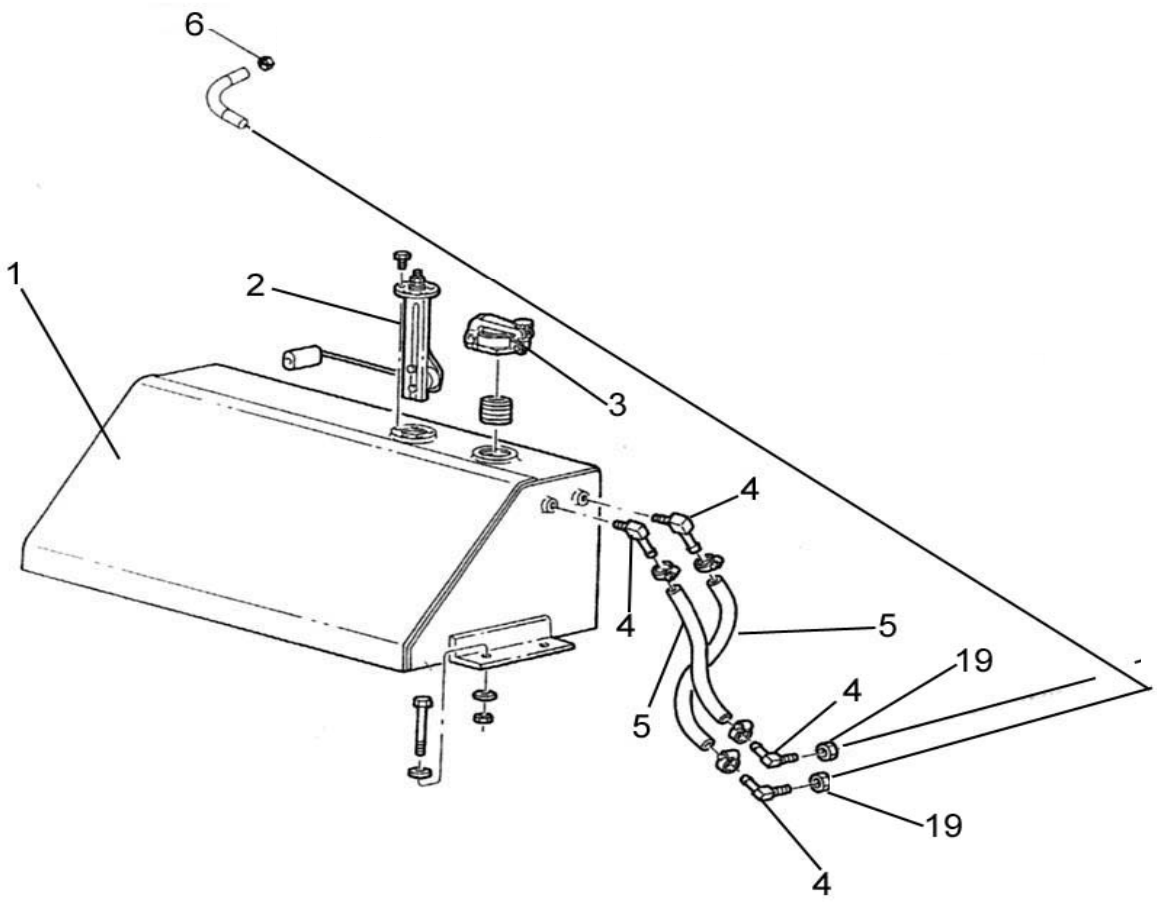
COOLING SYSTEM



COOLING SYSTEM—DETAIL

Item	Part Number	Qty	Description
1	A-TT4-00317	1	90 DEGREE HOSE
2	A-TT4-00314	2	BOTTOM RADIATOR HOSE
3	A-TT4W-00336	1	BOTTOM RADIATOR TUBE
4	A-TT4F-00326	1	TOP RADIATOR TUBE
5	A-TT8D-00100	1	CONNECTOR TUBE
6	A-TT4C-00311	1	RADIATOR
7	A-TT8-00341-2	1	FAN SHROUD
8	A-TT4-00312-4	1	COOLING FAN
9	NPN	1	CONNECTOR TUBE
10	A-TT4-00323	3	BOTTOM HOSE
11	A-TT8D-00100	1	CONNECTOR TUBE
12	A-TT4-00328	2	U-BOLT
13	NPN	1	RESERVOIR BRACKET
14	A-TT4-00322-2	1	RESERVOIR FILL TANK

FUEL SYSTEM

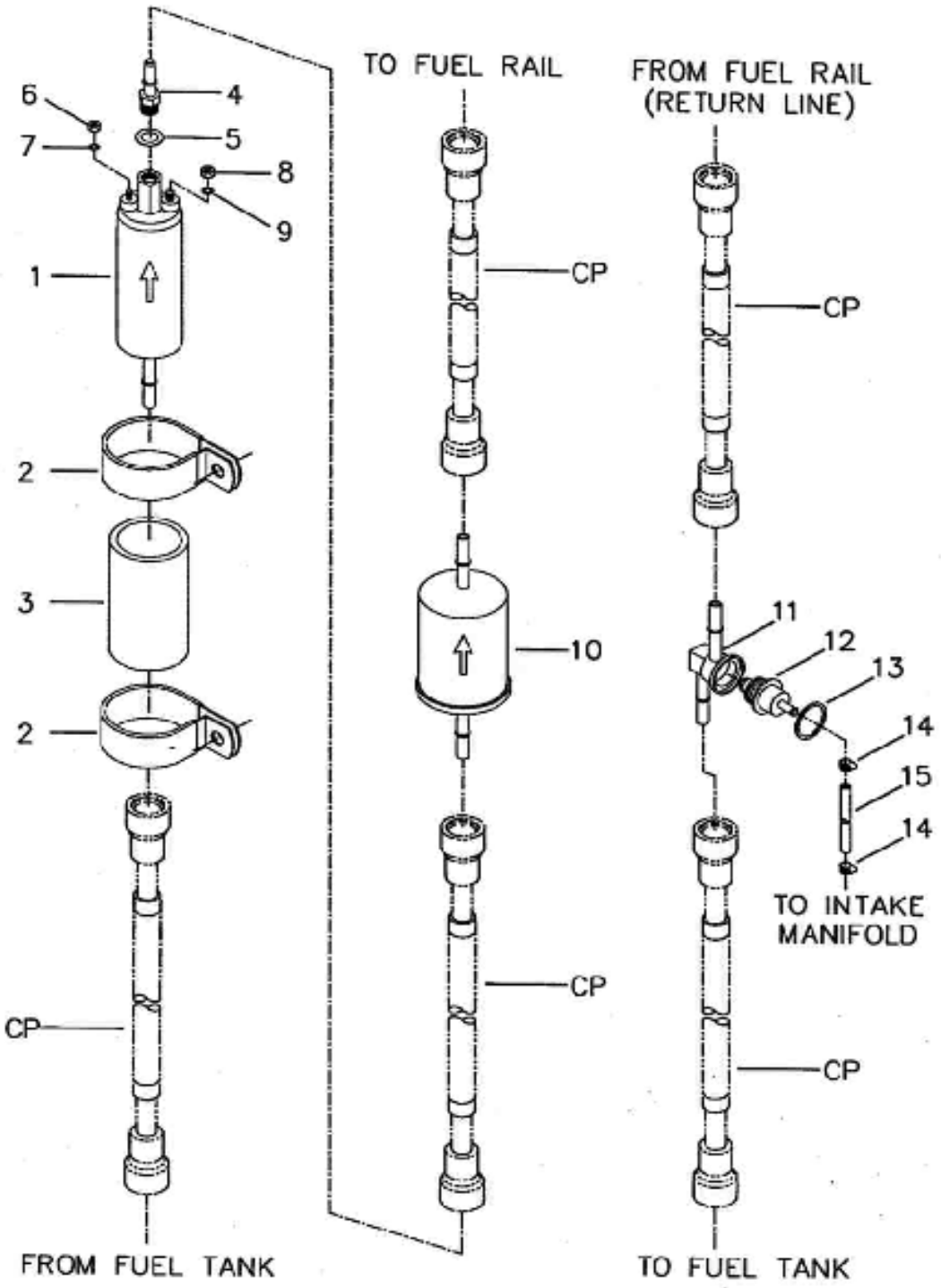


FUEL SYSTEM—DETAIL

Item	Part Number	Qty	Description
1	A-TT4-00273	1	FUEL TANK
2	A-TT4-00276	1	FUEL SENDING UNIT
3	A-TT4-00271-2	1	FUEL CAP
4	A-TT4F-00274	6	90 DEGREE ELBOW FITTING
5	NPN	2	5/16 HIGH PRESSURE LINE 350 PSI
6	NPN	14	#4 HOSE CLAMP
7	F8JL9A011AA	1	FILTER - FUEL TANK
8	A-TT4-00280	2	BULKHEAD FITTING

NOTES

FUEL SYSTEM


TO FUEL RAIL
FROM FUEL RAIL
(RETURN LINE)
6
4
7
5
8
9
1
2
3
2
CP
CP
CP
10
CP
CP
11
12
13
14
15
14
TO INTAKE
MANIFOLD
FROM FUEL TANK
TO FUEL TANK

FUEL SYSTEM

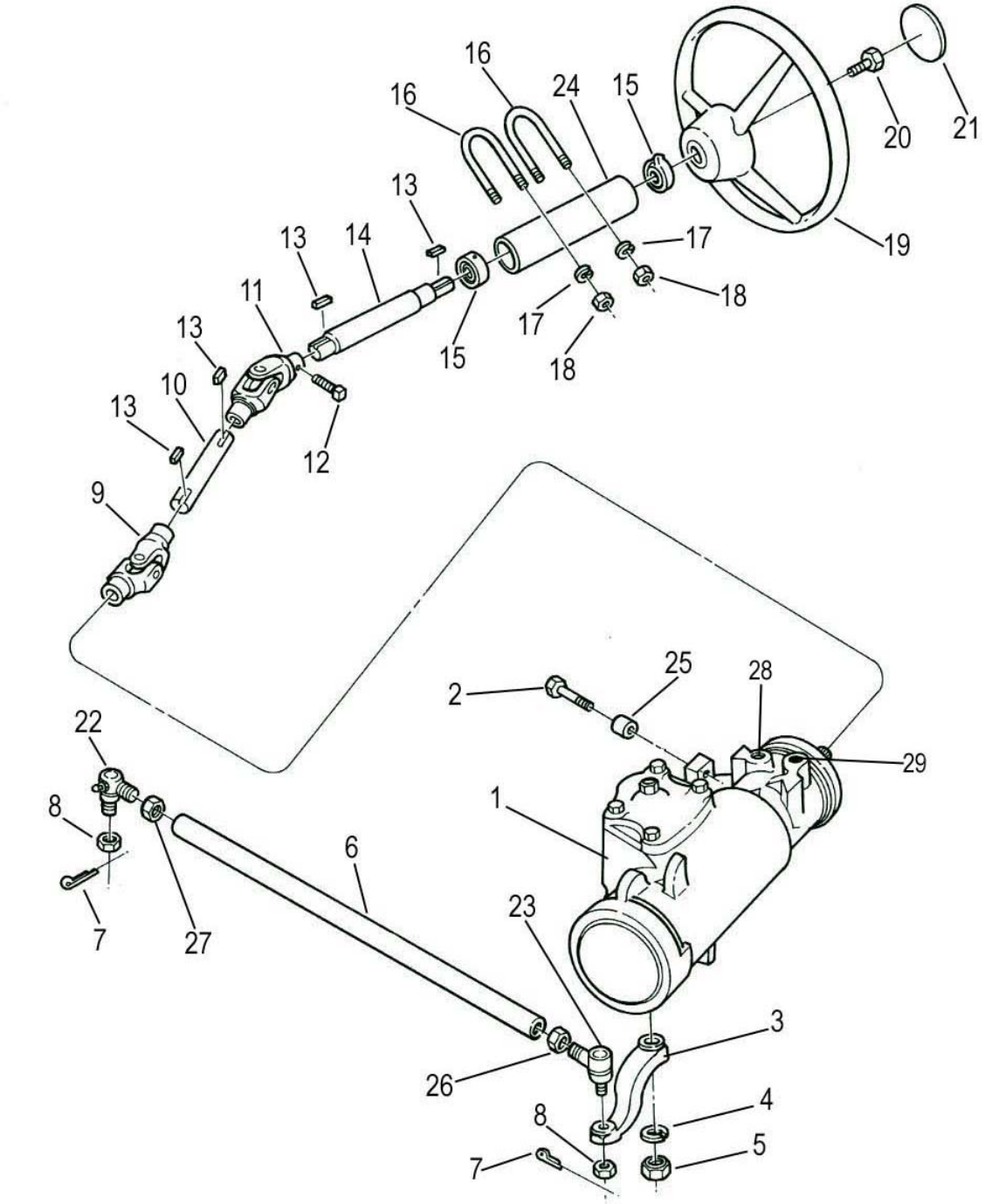
ITEM	PART NO.	DESCRIPTION	QTY.
1	TM27F00337	Fuel Pump- Electric	1
2	TM27F00240	Isolator, fuel pump	1
3	TM27F00240	Clamp, pump mounting	2
4	TM27F00338	Fitting, M10 x SAE J2044	1
5	TM27F00238	Washer, M10, copper	1
6	20200005	Nut, M4, positive terminal	1
7	20200004	Washer, M4, lock, internal tooth	1
8	13XXM35004	Nut, M5, negative terminal	1
9	XM37021	Washer, M5, lock, internal tooth	1
10	TM27F00339	Fuel filter	1
—	TM27F03360	Assembly, fuel pressure regulator (includes items 11, 12 & 13)	1
11	TM27F00336	Holder, fuel pressure regulator	1
12	TM27F00236	Fuel pressure regulator-2.7 Bar	1
13	TM27F00237	Retaining ring, N5000-143	1
14	X02864	Hose clamp, 5/8" ID max	2
15	LL213-360	Hose, fuel, 3/16"ID x 36" long	1

NOTE: CP – Customer Provided (hose ends to mate to SAE J2044 Fittings)
See page 14 of the Owner's Manual for hose requirements.

Refer to the "Engine Specification Number" when ordering parts to determine the correct part number.

STEERING SYSTEM

STEERING SYSTEM BREAKDOWN



STEERING SYSTEM

STEERING SYSTEM BREAKDOWN—DETAIL

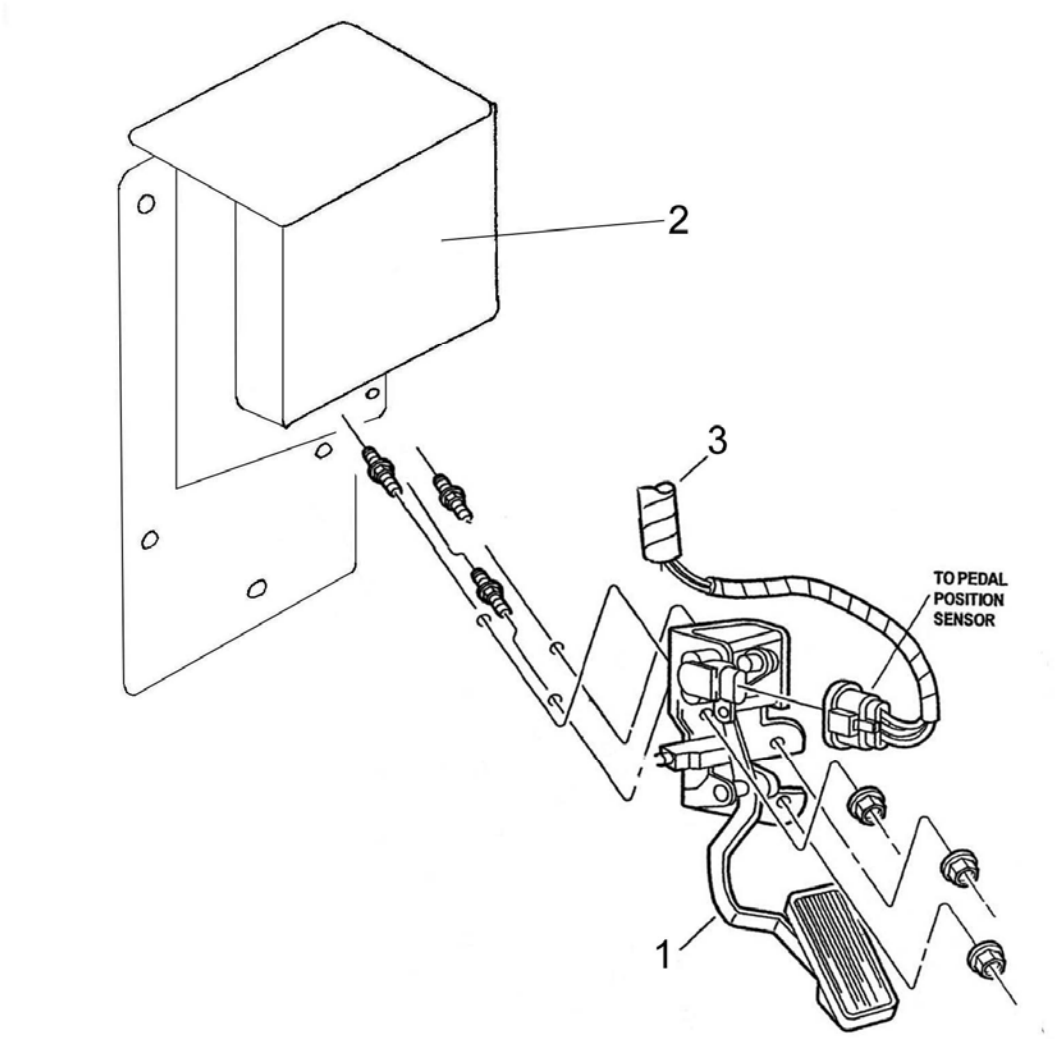
Item	Part Number	Qty	Description
1	A-TT4-00381	1	STEERING BOX
2	NPN	4	SCREW-HEX CAP-7/16-14 X 2 GR8
3	A-TT4-00382	1	PITTMAN ARM
4	NPN	1	WASHER-LOCK-3/4
5	NPN	1	NUT-LOW-3/4-10
6	A-TT4-00386	1	DRAG LINK
7	NPN*	2	COTTER PIN 1/8 X 1 ½
8	NPN*	2	NUT-TIE ROD ½-20
9	A-TT4-00389	1	UNIVERSAL COUPLER
10	A-TT4-00390	1	SHAFT COUPLING
11	A-TT4-00391	1	UNIVERSAL JOINT
12	NPN	2	LOCKING BOLT-DOG POINT 3/8-16
13	A-TT4-00393	4	GIBB KEY
14	A-TT4-00394-1	1	STEERING SHAFT
15	A-TT4-00395	2	BEARING
16	A-TT4-00396	2	2 1/8 U-BOLT 3/8HD
17	NPN**	4	WASHER-FLAT-5/16
18	NPN**	4	NUT-LOCK-5/16-18
19	A-TT4-00399-1	1	STEERING WHEEL
20	N/A	1	SCREW-HEX CAP-3/8-24 X 1
21	A-TT4-00401-1	1	COVER PLATE
22	A-TT4-00402	1	TIE ROD END L/H
23	A-TT4-00403	1	TIE ROD END R/H
24	A-TT4-00404	1	STEERING TUBE
25	A-TT4-00405	4	SPACERS
26	A-TT4-00406	1	3/4-16 NUT-JAM-L/H
27	A-TT4-00407	1	3/4-16 NUT-JAM-R/H
28	A-TT4-00212	1	HIGH PRESSURE EXTENDER
29	A-TT4-00204	1	RETURN LINE EXTENDER

* 7 & 8 NOT SOLD SEPARATELY - INCLUDED IN PART # 22 & 23

** PARTS INCLUDED IN PART # 16

OPERATOR COMPARTMENT

ACCELERATOR PEDAL ASSEMBLY



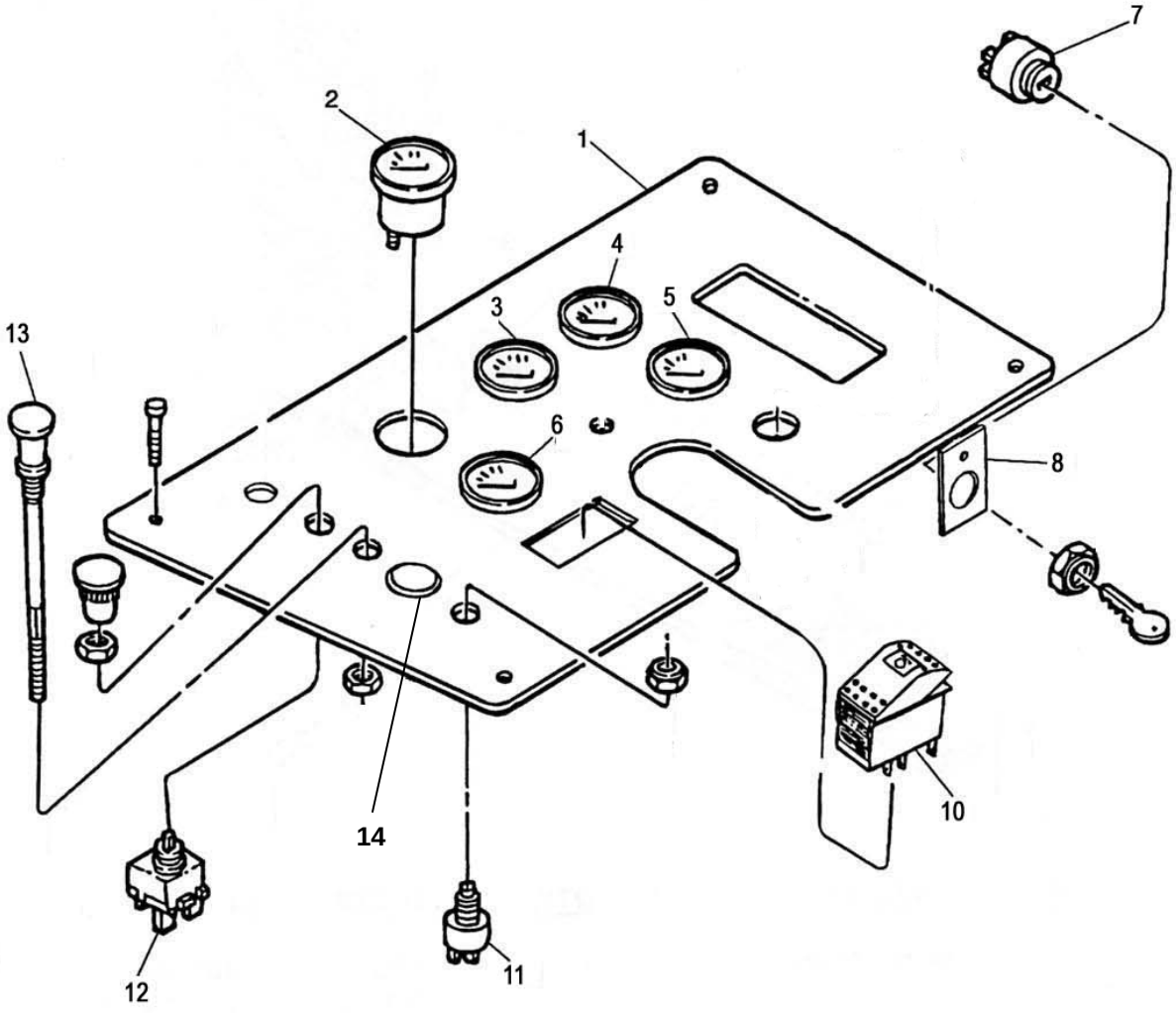
ACCELERATOR PEDAL ASSEMBLY—DETAIL

Item	Part Number	Qty	Description
1	F5TZ9F836A	1	FOOT PEDAL WITH TWO PLUGS
1A	F8JL12B476AA	1	WIRE HARNESS WITH TWO PLUGS
2	NPN	1	ELECTRONIC FOOT PEDAL BRACKET
3	1C329F836BA	1	FOOT PEDAL WITH ONE PLUG
3A	2U1L12B476AA	1	WIRE HARNESS WITH ONE PLUG

NOTES

OPERATOR COMPARTMENT

INSTRUMENT PANEL



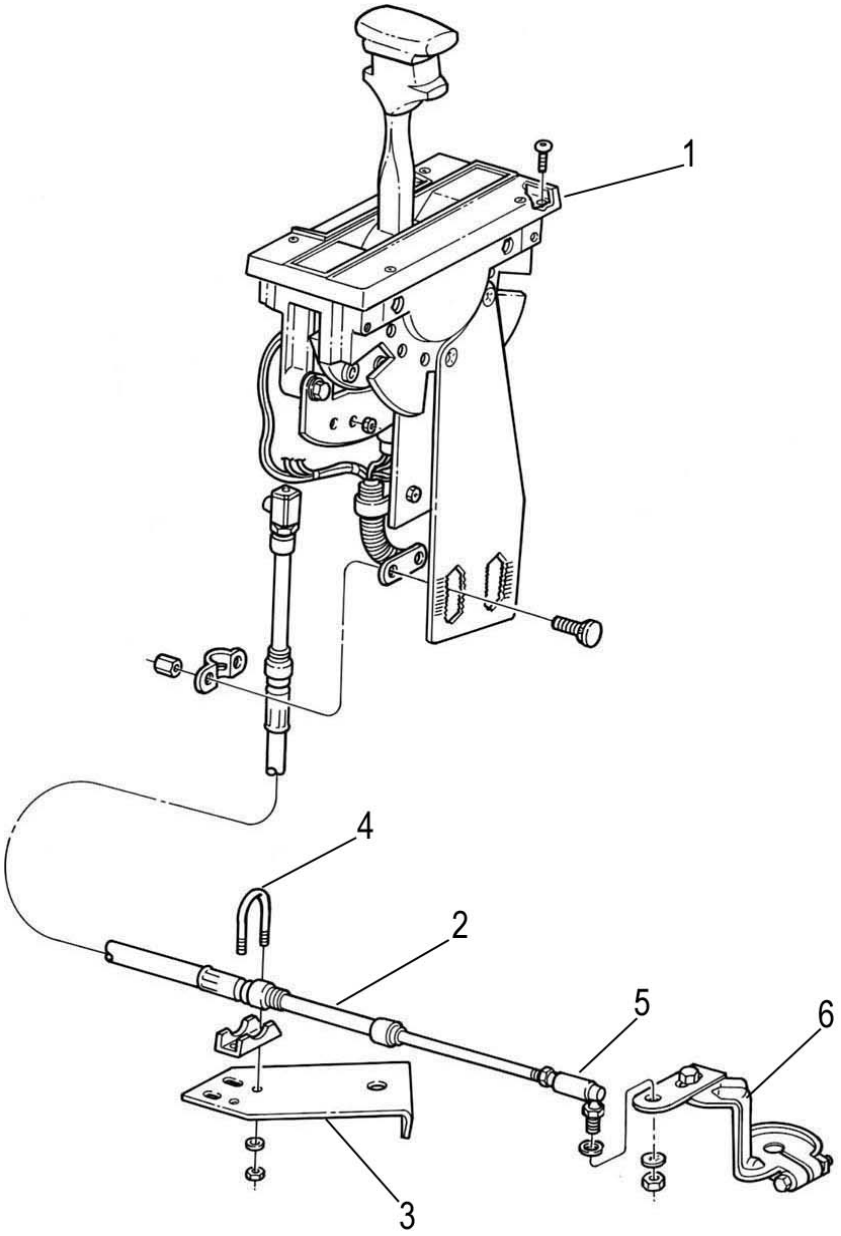
OPERATOR COMPARTMENT

INSTRUMENT PANEL—DETAIL

Item	Part Number	Qty	Description
1	C-TT4-00411	1	DASH PANEL (NO INSTRUMENTS)
2	A-TT4-00412	1	OIL PRESSURE GAUGE
3	A-TT4-00415	1	FUEL GAUGE
4	A-TT4-00416	1	VOLT-AMP GAUGE
5	A-TT4-00417	1	TEMP GAUGE
6	A-TT4-00418	1	HOUR METER
7	A-TT4-00422-2	1	IGNITION SWITCH (KEYED OPTION)
7	A-TT4-00422-3	1	IGNITION SWITCH (KEYLESS OPTION)
8	A-TT6-0015-1	1	PLATE, MOUNTING IGNITION SWITCH
10	A-TT4-0423-1	1	HEAD LIGHT SWITCH
11	A-TT4-00428	1	HORN BUTTON
12	A-TT4-00609	1	HEATER FAN SWITCH
13	A-TT4-00608	1	TEMPERATURE CONTROL CABLE (OPTION)
14	1176454	1	CHECK ENGINE LIGHT
NS	A-TT4-00434-1	1	WIRE HARNESS (DASH ONLY)
NS	A-TT4-00435-1	1	80 AMP CIRCUIT BREAKER (UNDER DASH)

OPERATOR COMPARTMENT

TRANSMISSION CONTROL

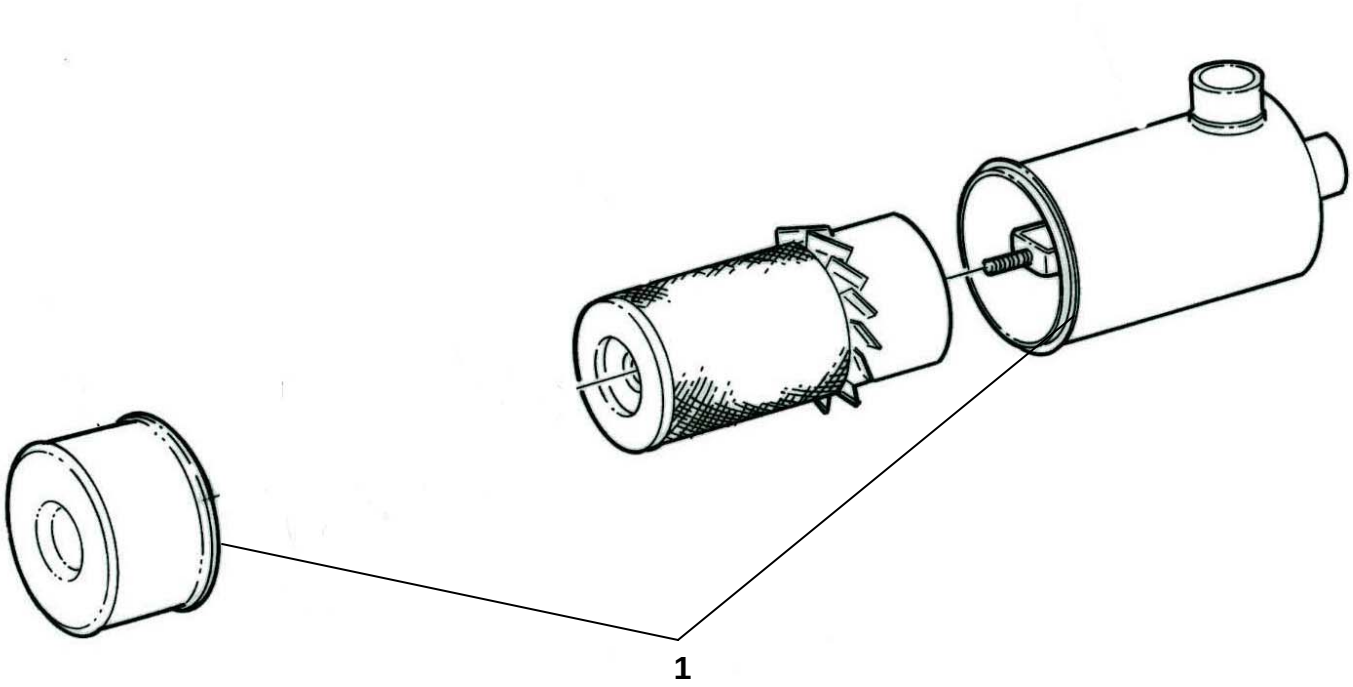


TRANSMISSION CONTROL—DETAIL

Item	Part Number	Qty	Description
1	A-TT4-00245	1	TRANSMISSION SHIFT CONTROL
2	A-TT4-00246	1	TRANSMISSION SHIFT CABLE
3	A-TT4-00248	1	TRANSMISSION CABLE BRACKET ASSEMBLY
4	A-TT4-00247	1	U-BOLT KIT
5	A-TT4-00249	1	BALL JOINT KIT
6	A-TT4-00419-1	1	TRANSMISSION LEVER

AIR CLEANER

AIR CLEANER SUB-ASSEMBLY

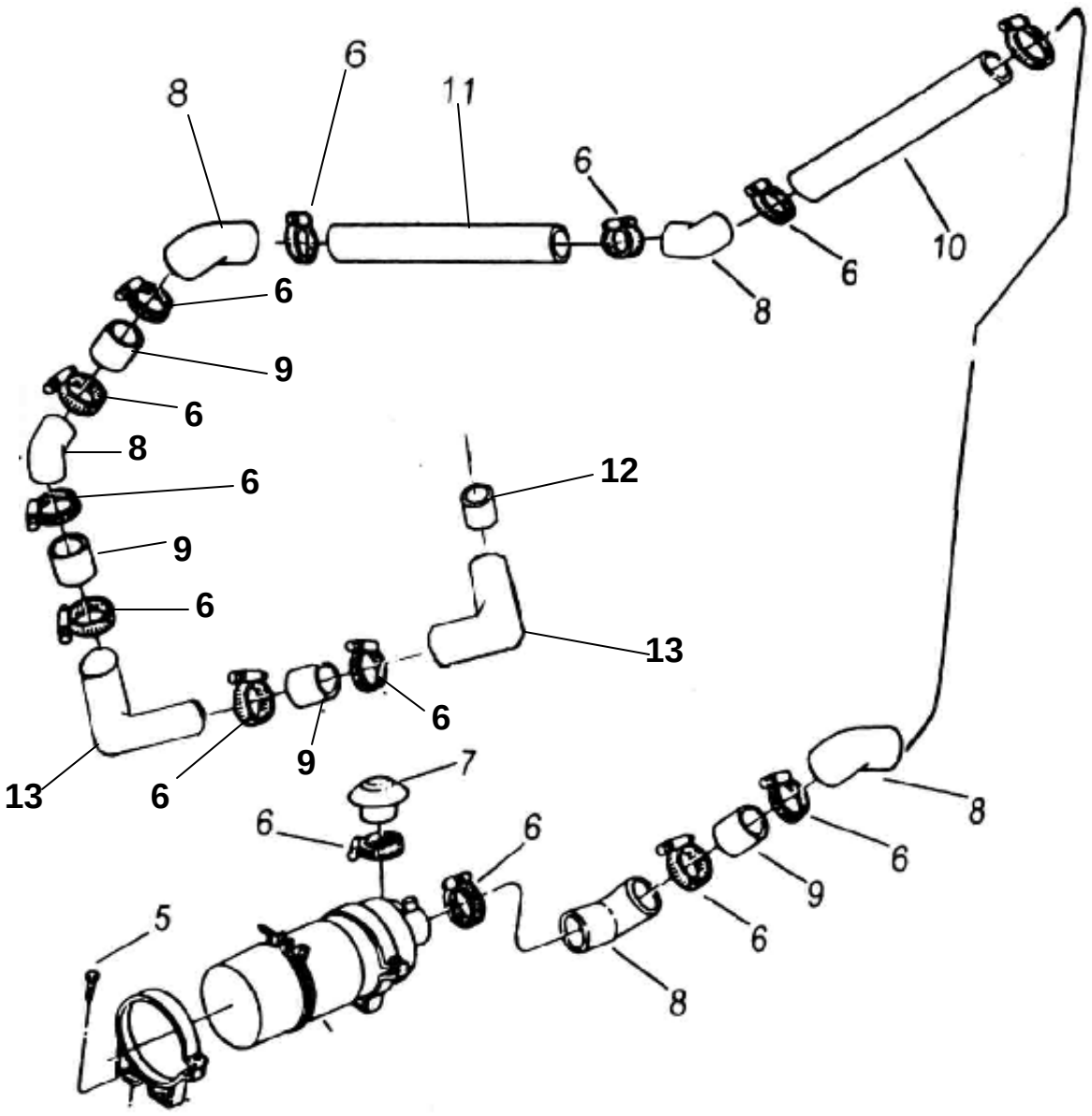


AIR CLEANER SUB-ASSEMBLY—DETAIL

Item	Part Number	Qty	Description
1	A-TT4-00091-1	1	AIR CLEANER 3"
1	P549271	1	AIR CLEANER ELEMENT 3"

Air Cleaner

AIR CLEANER ASSEMBLY



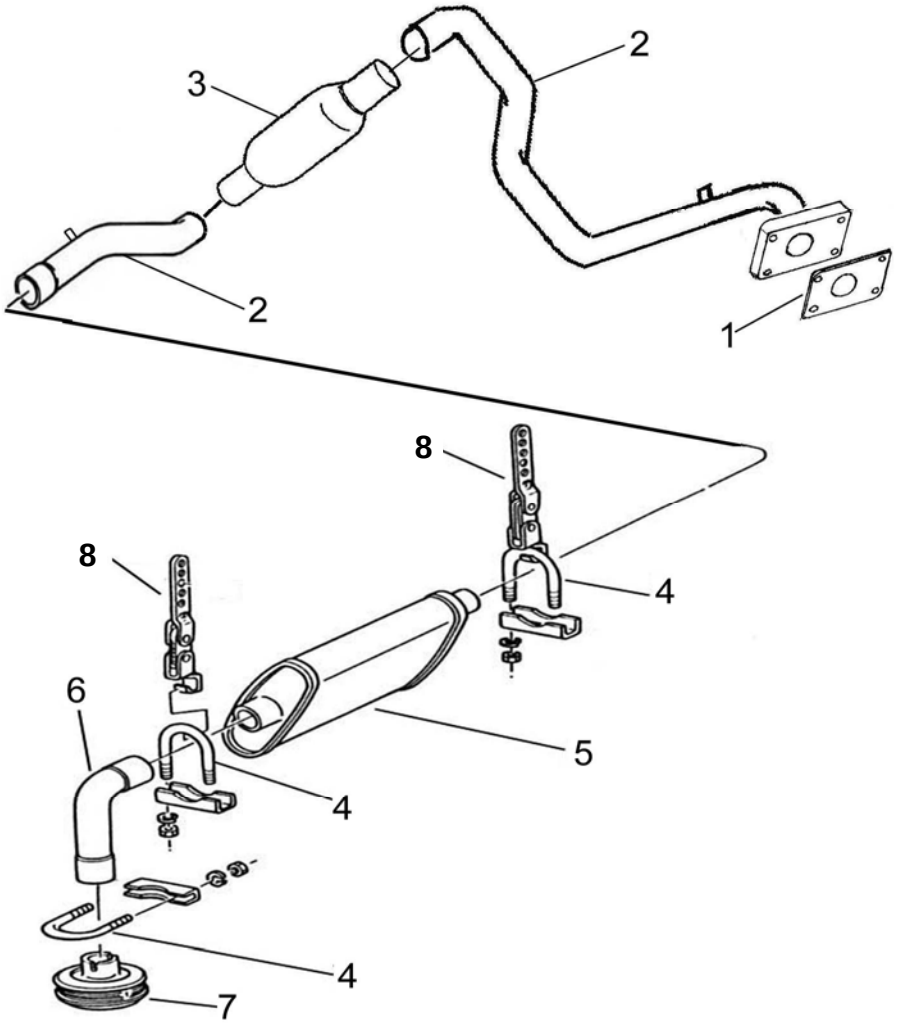
AIR CLEANER

AIR CLEANER ASSEMBLY—DETAIL

Item	Part Number	Qty	Description
1	A-TT4-00091-1	1	AIR CLEANER ASSEMBLY 3"
	A-TT4-00091	1	AIR CLEANER ASSEMBLY 2"
2	A-TT4-00092	2	AIR CLEANER BRACKET
3	NPN	4	NUT-LOCK 3/8-16
4	NPN	4	WASHER-FLAT 3/8
5	NPN	4	SCREW-HEX CAP 3/8-16 X 1 GR.5
6	NPN	10	HOSE CLAMPS
7	A-TT4-00098-1	1	RAIN CAP 3"
8	A-TT4-00094-3	5	45 DEGREE ELBOW 2.5
9	NPN	4	BULK-INTAKE TUBE - 2.5 X 3
10	NPN	1	BULK-INTAKE TUBE - 18.5"
11	NPN	1	BULK-INTAKE TUBE - 7"
12	A-TT4-00096	1	INTAKE TUBE REDUCER 2 TO 2 1/4
13	A-TT4-00097-1	1	90 DEGREE ELBOW 2.5

EXHAUST

EXHAUST SYSTEM



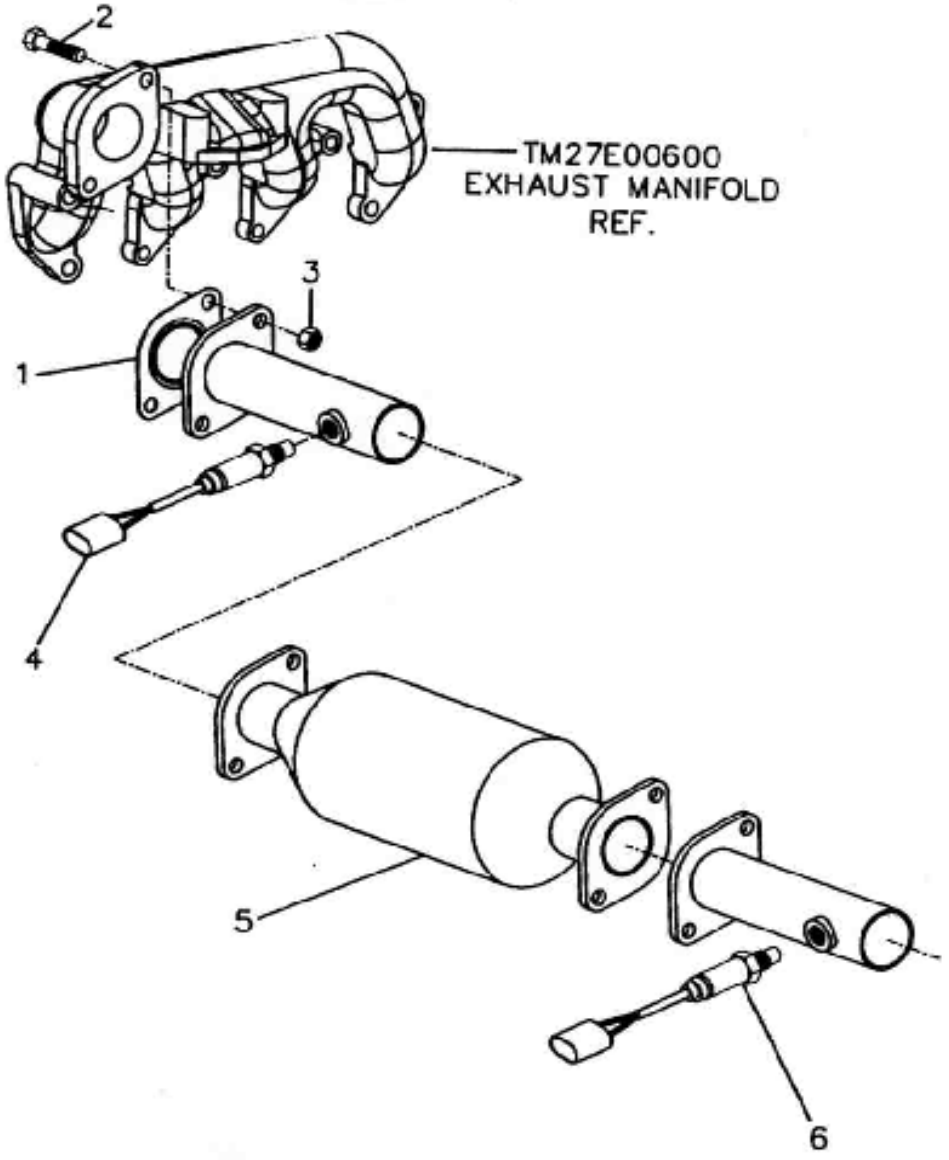
EXHAUST SYSTEM—DETAIL

Item	Part Number	Qty	Description
2	A-TT4W-00253	1	EXHAUST PIPE
4	A-TT4-00254	2	2″ MUFFLER CLAMPS
5	A-TT4-00258	1	MUFFLER
6	A-TT4-00259-3	1	90 DEGREE TAIL PIPE
7	AE-OPT-0059	1	SPARK ARRESTER (OPTION)
8	A-TT4-00260	2	PIPE HANGER

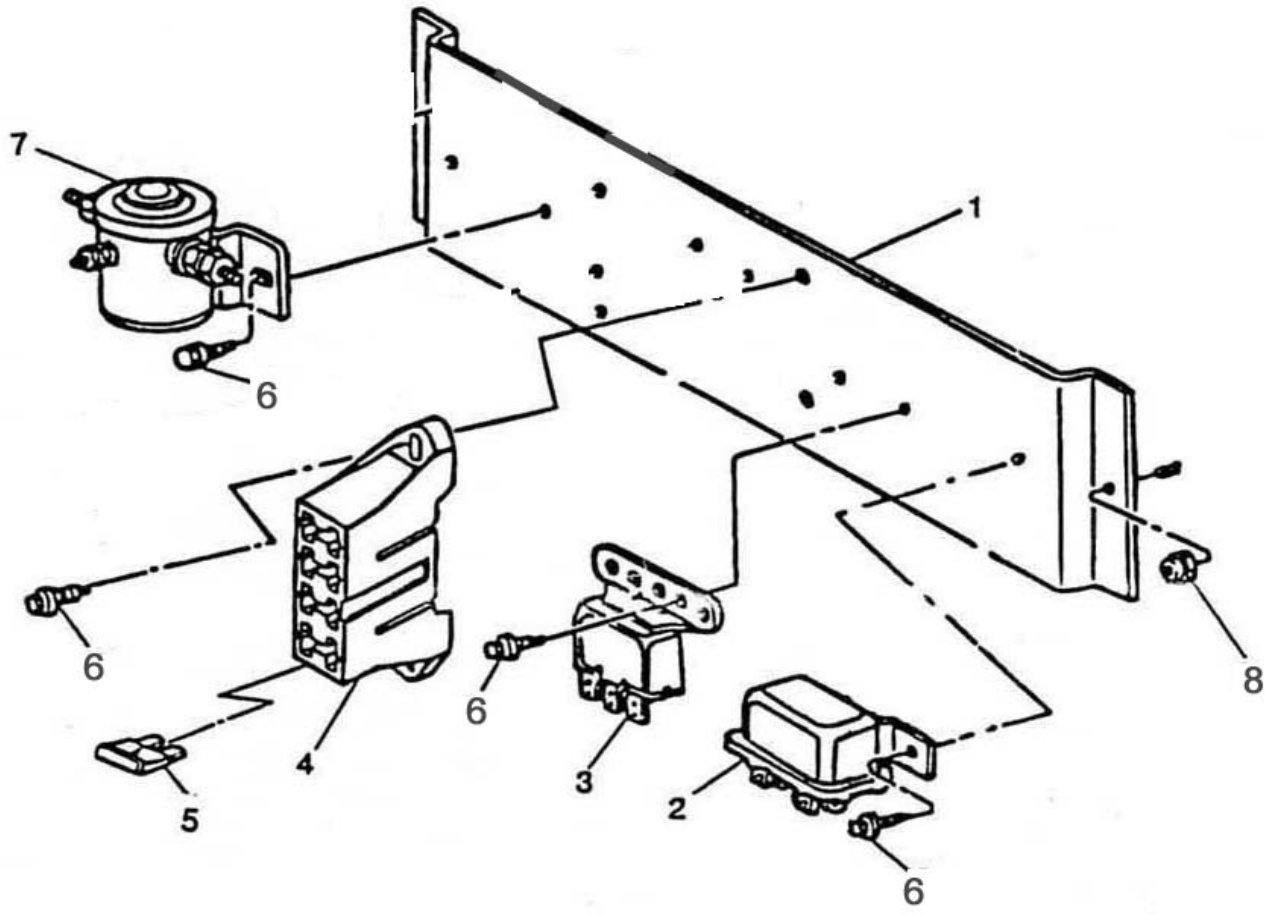
EXHAUST SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
1	TMD27E00306	Gasket, exhaust flange	1
2	XM32021	Screw, M10 x 40 long, GD10.9	1
3	XM35007	Locknut, M10	1
4	20120054	Sensor-Oxygen, Pre-cat	1
5	* TM27E00201	Muffler, catalytic	1
6	20120068	Sensor-Oxygen, Post-cat	1

NOTE: * Refer to the "Engine Specification Number" when ordering parts to determine the correct part number.



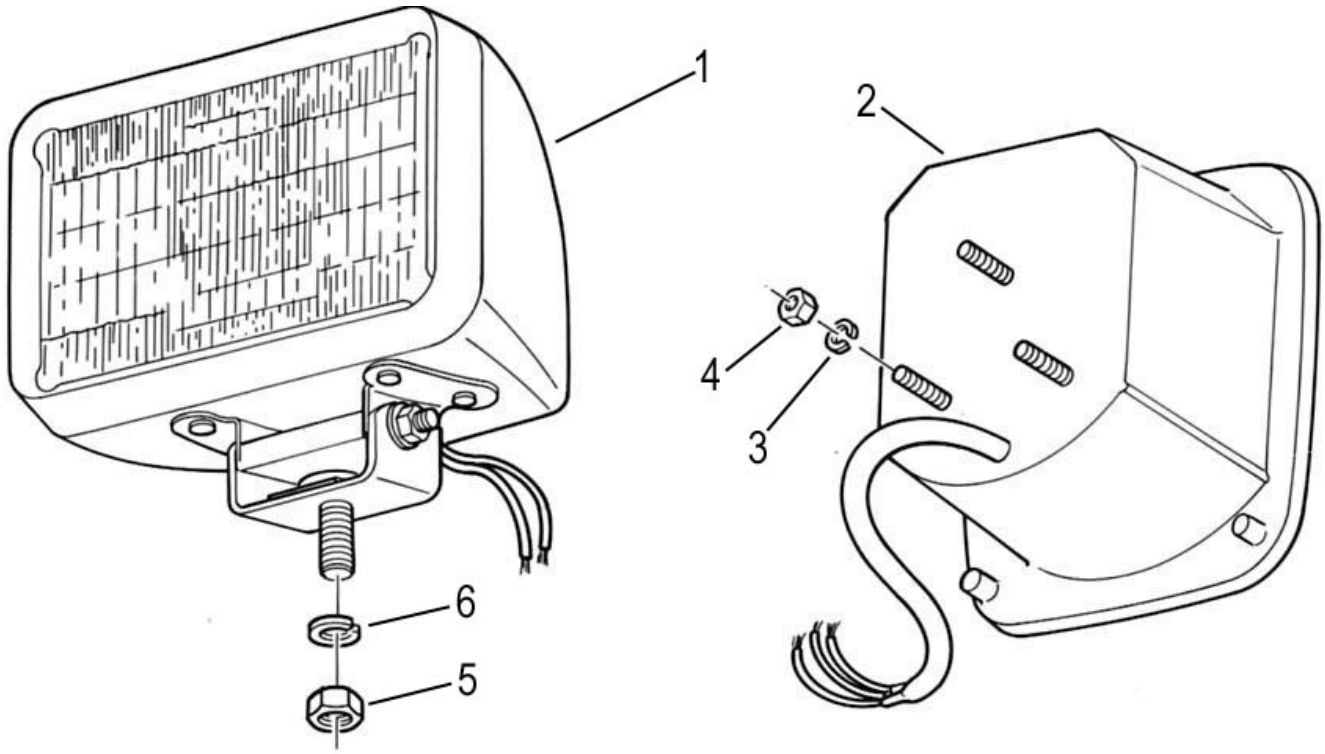
ELECTRICAL COMPONENT BOARD



ELECTRICAL COMPONENT BOARD—DETAIL

Item	Part Number	Qty	Description
1	B-TT4-00301	1	MOUNTING BRACKET
2	A-TT4-00302	1	STARTER RELAY
3	A-TT4-00303-1	1	HORN RELAY
4	A-TT4-00307	1	FUSE BLOCK-SPADE TYPE
5	A-TT4-00309	4	FUSE (25 AMP)
6	NPN	10	SELF DRILLING SCREWS
7	A-TT4-00308	1	RELAY
8	NPN	2	LOCK NUT 10-32

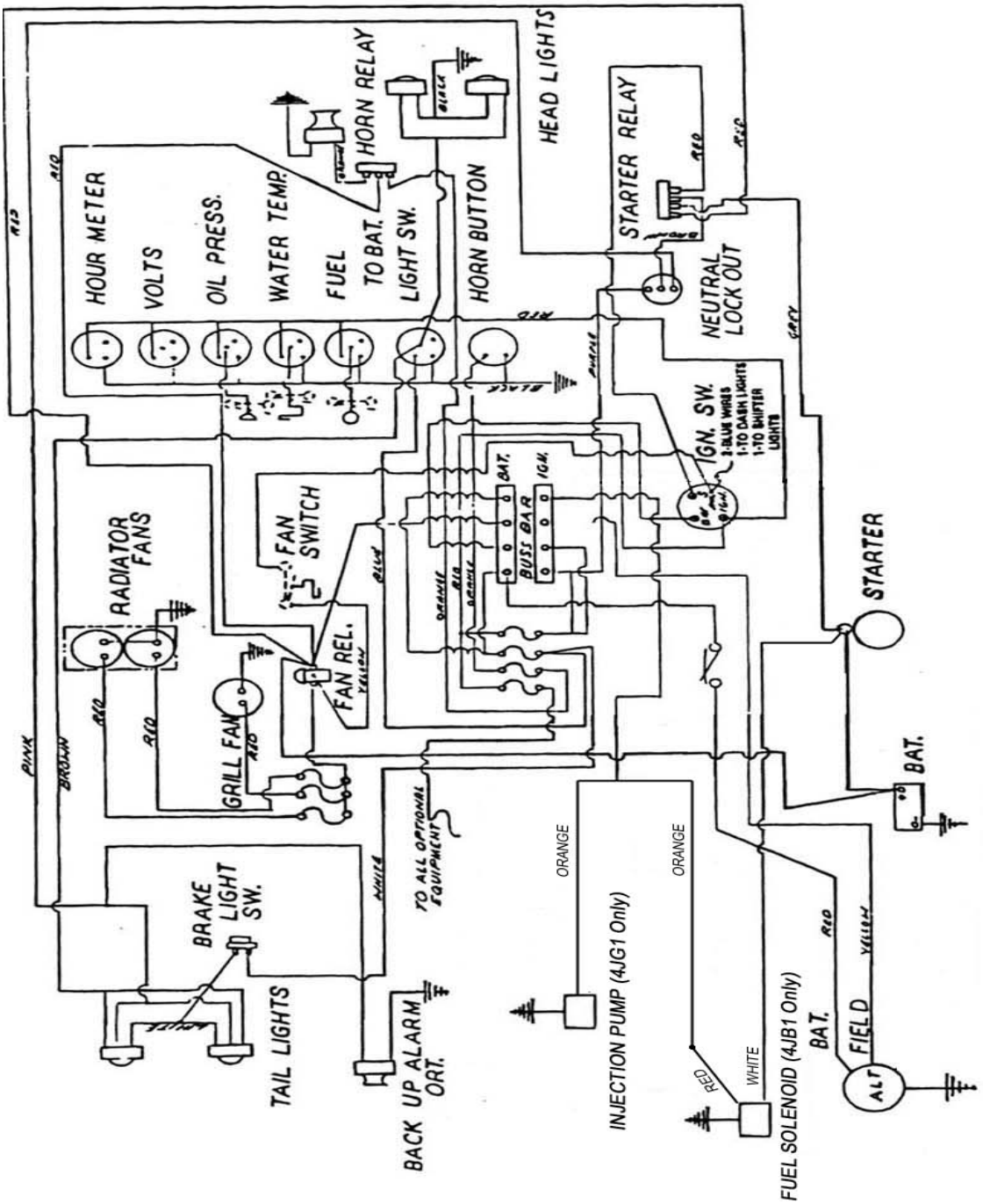
HEADLIGHT & TAILLIGHT ASSEMBLY



HEADLIGHT & TAILLIGHT ASSEMBLY—DETAIL

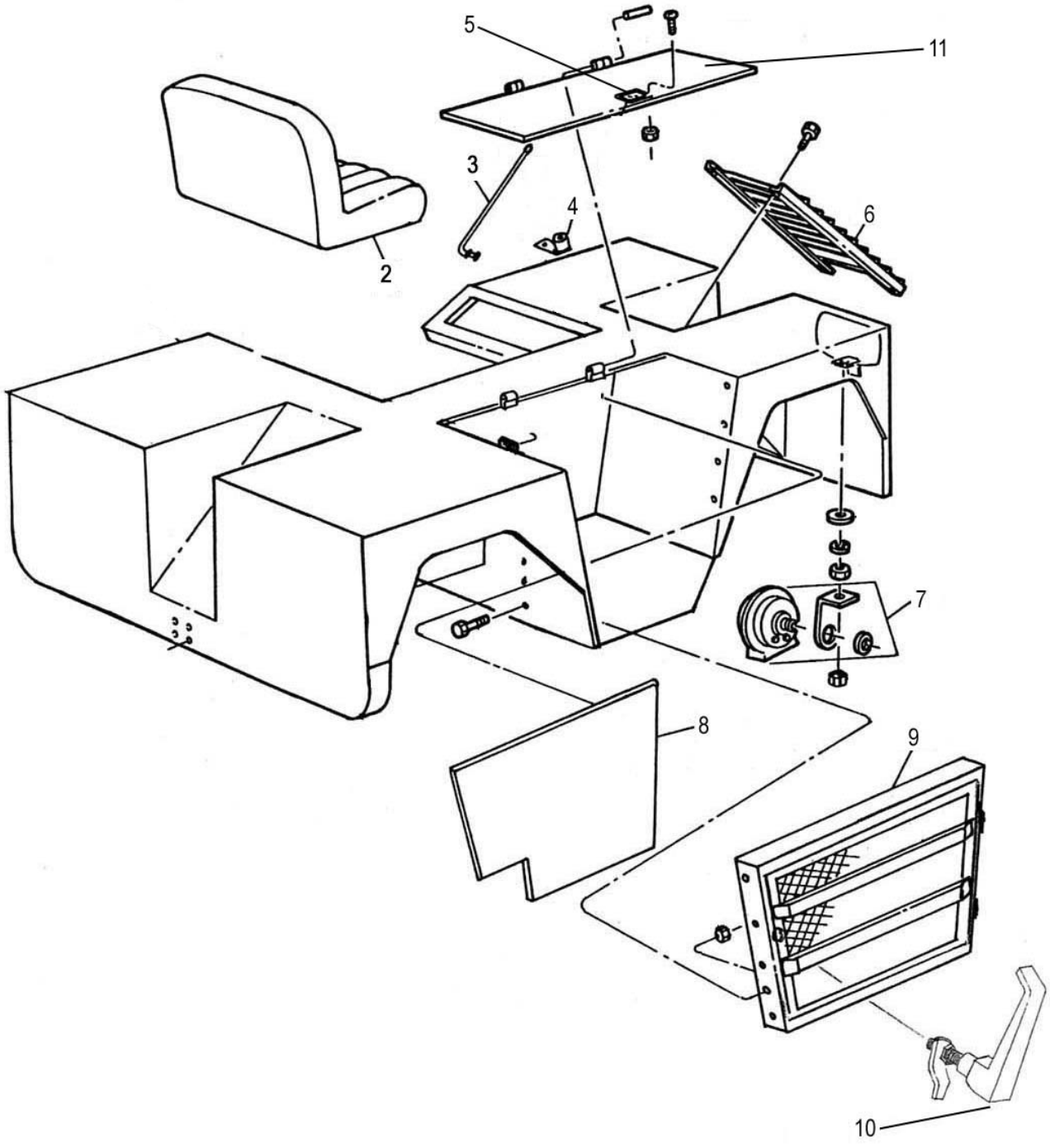
Item	Part Number	Qty	Description
1	A-TT4-00291-6	2	HEADLIGHT
2	A-TT4-00292	2	TAILLIGHT
3	NPN	2	WASHER-FLAT-1/2
4	NPN	6	WASHER-FLAT-1/4
5	NPN	2	NUT-1/2-13
6	NPN	6	NUT-1/4-20
7	AE-OPT-0075	2	HEADLIGHT WITH TURN SIGNAL (OPTION)

WIRING HARNESS



OTHER ASSEMBLIES

BODY ASSEMBLY



OTHER ASSEMBLY

BODY ASSEMBLY –DETAIL

Item	Part Number	Qty	Description
2	A-TT4-0048-1	1	SEAT
2	A-TT10-00048	1	*BENCH SEAT (ON TT /2 MODELS)
3	NPN	1	HOOD PROP
4	NPN	1	HOOD PROP ASSEMBLY
5	C-TT4-0012-1	1	HOOD LATCH
6	D-TT4-0047	1	FRONT GRILL
7	A-TT4-0052	1	HORN ASSEMBLY
8	A-TT4-0049	1	HEAT SHIELD
9	D-TT4-0009	1	GRILL GUARD/ACCESS DOOR
10	62-10-603-20	1	LATCH FOR ACCESS DOOR
11	C-TT4-0012	1	HOOD
12**	AE-OPT-00033	1	STANDARD E-HITCH

* Option for TT-8/2 only

** Optional not shown